CURRICULUM VITAE
6/13/2025

Jiquan Chen
University Distinguished Professor (6/2025 -)
AAAS Fellow (2010)
ESA Fellow (2014)
Fulbright Global Schoalr (2021-2022)
Landscape Ecology & Ecosystem Science (LEES) Lab
Department of Geography, Environment, and Spatial Sciences (GUESS)
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EDUCATION:

Ph.D. (1991):	Ecosystem Analysis, University of Washington, Seattle, Washington
M.S. (1986):	Forest Ecology, Chinese Academy of Sciences, Beijing & Shenyang, P.R. China
B.S. (1983):	Plant Ecology, Inner Mongolia University, Hohhot, P.R. China

WORK EXPERIENCE:

- University Distinguished Professor, Michigan State University (MSU) (6/13/2025 – Present)
- Professor, w/ tenure, Lansing, Michigan (5/2014 – Present)
- Honorary Professor, Kazakh National Agrarian University (12/2017 – present)
- Director and Professor, IceMe, Nanjing University of Information Science & Technology, Nanjing, China (1/2012 – 12/2014)
- Professor, University of Toledo, Toledo, Ohio (2003 – 5/2014)
- Adjunct Graduate Faculty, University of South Dakota (8/2022 -8/2027)
- Adjunct Research Professor, Institute of Botany, Chinese Academy of Sciences, China (2004 – 2008)
- Professor and Chair, Ecology Program, Fudan University, Shanghai, China (2004 – 2008)
- Adjunct Professor of Ecology, North Carolina State University, Raleigh, North Carolina (2004 – 2007)
- Associate Professor, University of Toledo, Toledo, Ohio (2001 – 2003)
- Bullard Fellow, Harvard University, Boston, Massachusetts (1999 – 2000)
- Associate Professor with tenure since 1998, School of Forestry & Wood Products, Michigan Tech University (MTU), Houghton, Michigan (1998 – 2001)
- Auxiliary Assistant Professor, College of Forest Resources, University of Washington (UW), Seattle, Washington (1993 – 2003)
- Assistant Professor, Landscape Ecology and Ecosystem Science (LEES), School of Forestry and Wood Products, Michigan Technological University, Houghton, Michigan (1993 – 1998)
- Adjunct Associate Professor, Beijing University, Beijing, P.R. China (1994 – 1998)
- Adjunct Ecologist, Institute of Applied Ecology, Chinese Academy of Sciences (1994 – 1997)
- Post-Doctoral Research Associate, Olympic Natural Resources Center, University of Washington (1991 – 1993) and Center for Streamside Studies (1992 – 1993), Seattle, Washington

AWARDS & RECOGNITIONS:

- Distinguished Scholarship Award, American Association of Geographers (AAG), 2025
- Outstanding Service Award, US-China Carbon Consortium (USCCC), 2024
- Scientific Achievement Award, International Union of Forest Research Organizations (IUFRO), 2024
- The Fulbright "Global Scholar Award" (2021-2022)
- Ecol Process: Springer Nature journal for the excellent publishing experience (2020, 2021, 2022)

- William J. Beal Outstanding Faculty Award (MSU), 2020
- "Lifetime Achiever", Marquis, 2017
- Fellow, Ecological Society of America (ESA), 2014
- Distinguished University Professor, University of Toledo (UT), Toledo, Ohio 2011 (lifetime)
- Fellow, American Association for the Advancement of Science (AAAS) — 2011
- Norbert Gerbier-MUMM Award, 2011 as a Co-Author, World Meteorological Organization — 2011
- The Hexagon Education Contest Winner-2017 (Giannico et al. 2016)
- Faculty Excellence Award, College of Arts and Sciences, University of Toledo — 2010, 2011
- Wangkuancheng Award, Chinese Academy of Sciences — 2011
- First Prize for "Achievement in Higher Education", Shanghai City — 2009
- Excellence in Summer Graduate Lectures, Fudan University, Shanghai, China — 2008
- Outstanding Service Award, Chinese Association of Greater Toledo — 2007
- Outstanding Faculty Research Award, University of Toledo, Toledo, Ohio — 2006
- Research Fellowship for Foreign Specialists, FFPRI, Japan — 10/24 – 10/29/2004
- Sigma Xi/Dion D. Raftopoulos Award, University of Toledo, Toledo, OH — 2004
- Research Expert, Korean Forest Service — 2003
- Charlie C. Bullard Fellowship, Harvard University, Cambridge, MA — 9/1/1999 – 8/30/2000
- "Most influential in the Development of My Scientific Career", Intel Science, Talent Search — 1999
- Second Place for the Graduate Student Seminar, University of Washington, Seattle, WA — 1990
- Outstanding Graduate Student, Chinese Academy of Sciences; 1983 – 1987

PROFESSIONAL SERVICE:

- Editor in Chief: *Ecological Processes*, SpringerNature, (1/2016 – present)
- Editor in Chief: *Landscape Ecology,* book series, SpringerNature (8/2014 – 12/2020)
- Editor in Chief: *Ecosystem Science & Applications*, ESA Book Series, HEP-DeGruyter–MSU (5/2011 –)
- Executive Board: Environmental Research: Ecology (7/2022 -)
- Editorial Board: *Land* (1/2021 – 5/2023)
- Editorial Board: *Sustainability* (6/2023 – present)
- Editorial Board: *Scientific Reports* (2023 -)
- Editorial Board: *Frontiers in Forests and Global Change* (9/2018 – 3/9/23
- Associate Editor (decision): *Frontiers in Forests and Global Change* (3/9/23 – present)
- Editorial Board: *Expert Opinion on Environmental Biology* (5/2014 – Present)
- Editorial Board (member): *Agricultural and Forest Meteorology* (2012 – Present; 10/2006 – 2009)
- Editorial Board*: Ecological Processes* (6/2011 – 1/2016)
- Coordinating Editor: *Landscape Ecology* (5/2011 – 12/2022
- Editorial Board: *Vegetation of China* (3/22/2019 – present)
- Editorial Board: *Biosciences (BIOSCI)* (2/2010 – Present)
- Editorial Board (member): *Forest Ecology and Management* (9/2007 – Present)
- Editorial Board (member): *The Open Conservation Biology Journal* (10/2007 – 2020)
- Editorial Board: *Journal of Plant Ecology* – UK (12/2004 – 9/2016)
- Editorial Board: *Acta Ecologica Sinica* – Elsevier J. (1998 – Present)
- Editorial board: *Review of Global Change Research* (2010, 2009)
- Editorial Board: *Frontiers of Forestry in China*, HEP – Springer Press (10/2005 – 12/2009)
- Associate Editor: *SciTechnol* (8/2012 – 2013)
- Editorial Board: *Acta Applied Ecologica* (1997 – 2009)
- Editorial Board: *Atmosphere* (8/2020 – 1/2022)
- Special Issue Editor: *Journal of Integrative Plant Biology* (12/2007 – 7/2008)
- Guest Editor: Special Issue on USCCC, *Agricultural and Forest Meteorology* (10/2006 – 2/2008)
- Special Issue Editor: *Bioscience*, coupled human and natural systems-CHANS (2014)
- Special Issue Editor: *Landscape Ecology*, coupled human & natural systems (2013–2014), Chen & Liu
- Special Issue Editor: Environmental Research, human and natural systems-CHANS (2015-2016), Lafortezza and Chen

- Special Issue Editor: *Forest Science* (2004 – 2005): Teakettle Ecosystem Studies
- Special Issue Editor: Environmental Research, Nature-based solutions (2016-2017), with Dr. Lafortezza, Chen, et al.
- Special Issue Editor: *Agricultural and Forest Meteorology,* Carbon studies in ChEAS (2004 – 2007)
- Special Issue Editor: Shaoqiang Wang, Jiquan Chen, Ge Sun, Changliang Shao. Remotely Monitoring Terrestrial Carbon, Water and Energy Fluxes in Ecologically Sensitive Areas. Remote Sensing (2023-2024); https://www.mdpi.com/journal/remotesensing/special_issues/2KK0R5JBTD
- Guest Editor: *Southeastern Naturalist* (5/2005 – 8/2005)
- Associate Editor: *Forest Science* (4/2001 – 3/2005)
- Special Issue Editor: *Forest Science* 50(3): Forest Canopies (2004)
- Editorial Board Member: TAMU China Database (2/2003 – 2004)
- Associate/Handling Editor (Ecology): *Journal of Integrative Plant Biology* (1/2007 – 12/2014)
- **Chair**: IUFRO Landscape Ecology Working Group (1/2005 – 12/2013)
- **Chief Scientist**: US-China Carbon Consortium (USCCC) (12/2003 – Present)
- **President**: Chinese Association of Greater Toledo (2012; 1/2006 – 2009)
- President: Association of Chinese Faculty and Staff, University of Toledo (12/2008 – 2010)
- Public Interviews by the UX Designer, Springer Nature, UK, 9/19/18
- Panel Member: NASA Carbon Cycle (2013)
- Panel Member: NASA LCLUC (2007), Fellowship (2011)
- Panel member: NSF/ES (2011S, 2010F, 2009F, 2022-3)
- Panel Member: Ecosystem Studies Cluster, NSF (2011, 2010, 2009, 2022)
- Panel Member: Dr. K.C. Juan Scholarship (2010, 2009)
- Panel Member: NICCR/DOE Midwest Region (2007, 2006)
- Panel member: National Science Foundation of China (2014)
- Panel Member: EPA STAR/GRO Fellowships, Terrestrial Plant and Soils (2006, 2005, 2004)
- Panel Member: NASA IDS (2006)
- Panel Member: NASA LCLUC / USDA CSREES (2005)
- Panel Member: NASA NESSF (2012)
- Panel Member: External Advisory Panel, P.R. China Database, Texas A&M (5/2002 – 2/2003)
- Panel Member: Research Committee for Canadian Model Forests (1994 – 1998)
- Panel Member: NSF-CNH (2015, 2018)
- Panel, NASA IDS program (2016)
- Panel, NSF/INFEW (2019)
- Panel, Urban IFL/DOE, Urban Integrated Field Laboratories (July 20-22, 2023):
- Panel Member: WaDE of ORNL, BER/DOE (11/2022)
- Panel Member: Fubright Graduare Scholarship (58 proposals) (11/2023)
- Panel Member: CESRA Panel, NASA (9 proposals) (May 27-29, 2025)
- Panel Member: New Frontiers in Research Fund | New Frontiers in Research Fund, Canada (11 proposals) (3/18/2024)
- Member of the Governing Committee for the Great Lakes Environmental Observatory Networks (GLACEO of NEON) (10/2005 – 2/2008)
- Oversea Panel Member of Chinese Academy of Sciences (CAS): 2015-2018
- AGU Session Organizer, Session GC019: Environmental, socio-economic, and climatic change in Northern Eurasia and their feedbacks to the Global Earth System (12/2012)
- Judge, presentations at the 1026 IGLR annual meeting, Guelph, CA, June 6, 2016
- AGU Session (co-chair): PA42B Urban Sustainability at Multiple Scales: Convergence toward What? (12/2019)
- AGU Session co-chair: (12/2019), B32B - Gas and Energy Fluxes from and into Inland and Coastal Waters in a Warming Climate.
- Session Chair, Net ecosystem exchanges of carbon, water and energy at LTAR sites, 2020 LTAR Annual meeting, 4/29/2020.
- Committee Member, Fulbright U.S. Scholar and U.S. Student Programs for the 2024-25
- National Screening Committees (NSC), Institute of International Education (IIE) (9/2023 -)

MEMBERSHIPS:

- American Association for the Advancement of Science (1/2010 – Present)
- American Geophysical Union (AGU) (2005 – Present)
- National Association of State Universities and Land-Grant Colleges (NASULGC) (3/1999 –2005)
- International Canopy Network (ICAN) (1995 – Present)
- *International Union of Forest Research Organizations* (*IUFRO*) (1992-present)
- Xi Sigma Pi (1989 – Present)
- SINO-Ecologists Club (1988 – Present)
- Ecological Society of America (1987 – Present)
- Society for Conservation Biology (1996 – 12/2009)
- Society of American Foresters (1993 – 2005)
- International Association for Landscape Ecology (1991 – 2005, 2009-2017?)
- Northwest Sciences (1998 – 2002)

PUBLICATIONS

BOOKS AUTHORED

1. **Chen, J**. 2021. *Biophysical Models and Applications in Ecosystem Analysis*. East Lansing: Michigan State University Press. doi:10.14321/j.ctv1h1vc27. 172 pp
2. Li, L., **J. Chen**, X. Han, W. Zhang, and C. Shao (eds). 2020. Grassland Ecosystems of China. Springer. 583 p. https://doi.org/10.1007/978-981-15-3421-8
3. Gutman, G., **J. Chen,** G., Henebry, M. Kappas (Eds.). 2020. Landscape Dynamics of Drylands across Greater Central Asia: People, Societies, and Ecosystems.
4. Bhardwaj, A. K., Zenone, T., and **Chen, J.** (Eds.) 2015. Sustainable Biofuels: An Ecological Assessment of Future Energy. De Gruyter, 346pp.
5. **Chen, J.**, Wan, S., Henebry, G., Qi, J., Gutman, G., Sun, G., and Kappas, M. (Eds.) 2013. Dryland East Asia (DEA): Land Dynamics Amid Social And Climate Change. HEP and De Gruyter, 470 pp.
6. **Chen, J.** and Yang, S. (Eds.) 2014. Methods for Terrestrial Ecosystem Studies. Higher Education Press 362 pp.
7. Li, C., Lafortezza, R., and **Chen, J.** (Eds.) 2010. Landscape Ecology in Forest Management and Conservation. HEP and Springer, 424pp.
8. Lafortezza, R., **Chen, J.**, Sanesi, G., and Crow, T. R. (Eds.) 2008. Patterns and Processes in Forest Landscapes. Springer-Verlag. 425pp.
9. **Chen, J.**, Liu, S., Lucas, R., Sun, P., Lafortezza, R., and Delp Taylor, L. (Eds.) 2008. Landscape Ecology and Forest Management: challenges and solutions. The Proceedings of the International Conference of IUFRO8.01.02. Chengdu, P.R. China. 192pp.
10. Gu, B., Wu, J., Wu, Y., Dong, Q., and **Chen, J.** (Eds.) 2008. Green Career – poem and essay collection written by Chinese Ecologists overseas. Higher Education Press, 171pp.
11. **Chen, J.**, Saunders, S.C., Brosofske, K.D., and Crow, T.R. (Eds.) 2006. Ecology of Hierarchical Landscapes: from Theory to Application. Nova Science Publishers, 311pp.
12. **Chen, J.**, Li, B., Ma, Z., and Zhao, B. (Eds.) 2005. Challenges Facing Ecologists: Questions and Approaches, Higher Education Press, Beijing, P.R. China. 244pp.
13. Dong, Q. and **Chen, J.** 2002. Nature's Giving. Fujian Education Press, Fuzhou, P.R. China. 192pp.

EDITED SPECIAL ISSUES

1. Beegum, S., **J. Chen**, and U.K. Sahoo (ordwered by last name of the editors). Quantifying carbon stocks. *Scientific Reports*, (2024-2025), https://www.nature.com/collections/cacgbgeigf
2. Wang, S., **J. Chen**, G. Sun, and C. Shao. Remotely Monitoring Terrestrial Carbon, Water and Energy Fluxes in Ecologically Sensitive Areas. *Remote Sensing* (2022-3/2024), Remote Sensing | Special Issue : Remotely Monitoring Terrestrial Carbon, Water and Energy Fluxes in Ecologically Sensitive Areas Ⅱ
3. Liu, Y. and **J. Chen**. Water-energy-carbon fluxes over terrestrial water surfaces. *JGR-Atmospheres, JGR-Biogeosciences,* and *JGR-Earth Surface* (2019-2020)
4. Fan, P., **J. Chen**, and J. Wu. Evolving Landscapes under Institutional Change, Globalization, and Cultural

Influence in Contrasting Urban Systems. *Landscape and Urban Planning*, 9/2016-12/2017; http://www.journals.elsevier.com/landscape-and-urban-planning/news/call-for-papers-special-issue-on-evolving-landscapes

5. Lafortezza, R., **J. Chen**, C. Konijnendijk, and T. B. Randrup. 2017. Nature-Based Solutions (NBS): A New Call for Sustainable Urbanization. *Environmental Research.*
6. Lafortezza, R., and **Chen, J.** 2016. The provision of ecosystem services in response to global change: Evidences and applications. *Environmental Research* 147: 576-579. http://www.sciencedirect.com/science/journal/00139351/144/part/PB
7. **Chen, J.** 2015. Coupled Human and Natural Systems (CHANS). *BioScience.* 65: 539-540.
8. **Chen, J.** and Y. Liu. 2014. Coupled natural and human systems: a landscape ecology perspective. *Landscape Ecology 29*.
9. Xiao, J., **Chen, J.,** Davis, K. J., and Reichstein, M. 2011. Advances in Upscaling of Eddy Covariance Measurements of Carbon and Water Fluxes. *Journal of Geophysical Research–Biogeosciences*. http://onlinelibrary.wiley.com/doi/10.1029/2011JG001889/full
10. **Chen, J.**, Gao, H., and Waring, R. 2011. Plant and Water Relations. *Journal of Plant Ecology* 4 (1-2).
11. Heckathorn, S., and **J. Chen**. 2008. Plant responses to climate change. *Journal of Integrative Plant Biology* 50(11).
12. **Chen, J.**, Davis, K.J., and Meyers, T.P. 2008. Ecosystem-atmosphere carbon and water cycling in the temperate northern forests of the Great Lakes Region. *Agricultural and Forest Meteorology* 148(2).
13. North, M. and **Chen, J.,** 2005. Sierra mixed-conifer research. *Forest Science* 51(3).
14. Parker, G. and **Chen, J.** 2004. Canopy research. *Forest Science* 50(3).

JOURNAL ARTICLES

Citations at Publons (Web of Science): https://publons.com/researcher/1700310/jiquan-chen/
Citations at Google Scholar: http://scholar.google.com/citations?user=fv8umPcAAAAJ&hl=en
Citations at Researchgate: https://www.researchgate.net/profile/Jiquan_Chen
Citation at SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=8985856500

PUBLICATIONS (*graduate students and postdocs, or corresponding author)

De, R., S. Bao, S. Koirala, A. Brenning, M. Reichstein,T. Tagesson, M. Liddell, A. Ibrom, S. Wolf, L. Sigut, L. Hörtnagl, W. Woodgate, M. Korkiakoski, L. Merbold, T. A. Black, M. E. Roland, A. Klosterhalfen, P. D. Blanken, S. Knox, S. Sabbatini, B. Gielen, L. Montagnani, R. Fensholt, G. Wohlfahrt, A. R. Desai, E. Paul-Limoges, M. Galvagno, A. Hammerle, G. Jocher, B. R. Reverter, D. Holl, **J. Chen**, L. Vitale, M. A. Arain, N. Carvalhais. 2025. Inter-annual Variability of Hydrological Parameters Improves Simulation of Annual Gross Primary Production. *Journal of Avances in Modeling Earth Systems, in review, 3/31/25*

1) Saraf, S., R. John, V, Kolluru, K. Jain, G. Henebry, **J. Chen**, and R. Lafortezza. 2025. Spatiotemporal mapping of invasive yellow sweetclover blooms using Sentinel-2 and high-resolution drone imagery. ESSD; http://dx.doi.org/10.6084/m9.figshare.29270759.v1

2) Xu,H. et al. Resilience of the large-scale ecological restoration: how water matters. *Geophysical Research Letters*

3) Zou, H, **J. Chen***, X. Li, J. Zhu, X. Liu, Z. Tian, Z. Chen, J. Dai, Z. Xue, and P. G. Robertson. 2025. Contributions of vegetation heterogeneity within tower footprint to CO_2 flux estimations through graph neural network modeling. *Remote Sensing of Environment* 329:114952; https://doi.org/10.1016/j.rse.2025.114952

4) Wang, L., Liu, X., Wu, S., Legesse, T.G., Xu, Z., **Chen, J.,** Zhang, Y., Xin, X., Dong, X., Liu, Y. and Cao, K., 2025. Greenhouse gas emissions from livestock production tripled those from household consumption in the Eurasian desert steppe. Ecological Processes, 14(1), 60. https://doi.org/10.1186/s13717-025-00627-8

5) **Reed, D., H. Chu**, B. G. Peter, **J. Chen, M. Abraha**, B. Amiro, R. G. Anderson, M. A. Arain, P. Arruda, G. A. Barron-Gafford, C. Bernacchi, D. P. Beverly, S. C. Biraud, T. A. Black, P. D. Blanken, G. Bohrer, R. Bowler, D. R. Bowling, M. S. Bret-Harte, M. Bretfeld, N. A. Brunsell, S. H. Bullock, G. Celis, X. Chen, A. T. Classen, D. R. Cook, A. Cueva, H. J. Dalmagro, K. Davis, A. Desai, A. J. Duff, A. L. Dunn, D. Durden, C. W. Edgar, **E. Euskirchen**, R. Bracho, B. Ewers, L. B. Flanagan, C. Florian, V. Foord, I. Forbrich, B. R. Forsythe, J. Frank, J. Garatuza-Payan, S. Goslee, C. Gough, M. Green, T. Griffis, M. Helbig, A. C. Hill, R. Hinkle, J. Horne, E. Humphreys, H. Ikawa, G. Iwahana, R. Jassal, B. Johnson, M. Johnson, S. A. Kannenberg, E. Kelsey, J. King,

J. F. Knowles, S. Knox, H. Kobayashi, T. Kolb, R. Kolka, K. W. Krauss, L. Kutzbach, B. Lamb, B. Law, S-C Lee, X. Lee, H. Liu, H. W. Loescher, S. L. Malone, R. Matamala, M. Mauritz, S. Metzger, G. Meyer, B. Mitra, J. W. Munger, Z. Nesic, **A. Noormets**, T. L. O'Halloran, P. T. O'Keeffe, S. F. Oberbauer, W. Oechel, P. Oikawa, P. C. Olivas, A. Ouimette, G. Pastorello, J. F. Perez-Quezada, C. Phillips, G. Posse, B. Qu, W. L. Quinton, M. L. Reba, A. D. Richardson, V. Picasso, A. V. Rocha, J. C. Rodriguez, R. Ruzol, S. Saleska, R. L. Scott, A. P. Schreiner-McGraw, E. A.G. Schuur, M. Silveira, O. Sonnentag, D. L. Spittlehouse, R. Staebler, G. Starr, C. Staudhammer, C. Still, C. Sturtevant, R. C. Sullivan, A. Suyker, D. Trejo, M. Ueyama, R. Vargas, B. Viner, E. R. Vivoni. D. Wang, E. J. Ward. S. Wiesner, L. Windham-Myers, D. Yannick, E. A. Yepez, **T. Zenone**, J. Zhao, and D. Zona. 2025. Network of networks: Time deries vlustering of AmeriFlux dites. *Agricultural and Forest Meteorology* 372, 110686

6) Liu, Z., **J. Chen**, B. Chen, S. Wang. 2025. Temperature constraints of terrestrial ecosystem respiration in global biomes. *Functional Ecology*, Functional Ecology 39:2135–2148; DOI: 10.1111/1365-2435.70075
7) Luo, Y., Z. Guo, **J. Chen**, W. Ruan, X. Xu, L. Li, Y. Bao, N. Nuo, X. Xin, K. Keke, D. Eldridge, Y. Yan. 2025. Hygroscopic stem reshaping promotes long-distance plant dispersal. *New Phytologist*, http://doi.org/10.1111/nph.70225.
8) Yuan, Z., G. Bao, F. Li, **J. Chen**, J. Xiao, Q. Mu, E. Guo, S. Tong, S. Bayarsaikhan. 2025. Heat deficit for vegetation leaf senescence and its key accumulation process and determinants at northern middle and high latitudes during 2001–2022. *Global Ecology and Biogeography* 34: e70051, https://doi.org/10.1111/geb.70051
9) Yu, Z., Li, S., Yang, W., **Chen, J.,** Rahman, M.A., Wang, C., Ma, W., Yao, X., Xiong, J., Xu, C. and Zhou, Y., 2025. Enhancing Climate-Driven Urban Tree Cooling with Targeted Nonclimatic Interventions. Environmental Science & Technology, 59(18), 9082-9092. DOI: 10.1021/acs.est.4c14275
10) Zhu, Y., S. W. Myint, **J. Chen**, P. Fan, K. C. Seto. A. Jain, J. Qi, and J. Wang. 2025. Thermal changes along the urban-rural continuums in Southeast Asia. *Environmental Research Letters* 20: 054051 Https://DOI.org/10.1088/1748-9326/adcad2
11) De, R., S. Bao, S. Koirala, A. Brenning, M. Reichstein,T. Tagesson, M. Liddell, A. Ibrom, S. Wolf, L. Sigut, L. Hörtnagl, W. Woodgate, M. Korkiakoski, L. Merbold, T. A. Black, M. E. Roland, A. Klosterhalfen, P. D. Blanken, S. Knox, S. Sabbatini, B. Gielen, L. Montagnani, R. Fensholt, G. Wohlfahrt, A. R. Desai, E. Paul-Limoges, M. Galvagno, A. Hammerle, G. Jocher, B. R. Reverter, D. Holl, **J. Chen**, L. Vitale, M. A. Arain, N. Carvalhais. 2025. Addressing challenges in simulating inter-annual variability of gross primary production. *Journal of Avances in Modeling Earth Systems 17(5)*, DOI: 10.1029/2024MS004697
12) Beisenova, R.; **Chen, J**.; Kussainova, M.; Tussupova, K.; Tazitdinova, R.; Mujahid, N.; Rakhymzhan, Z. 2025. Influence of geographical locations on drink ing water quality in rural Pavlodar region, Kazakhstan. *Water* 17, 945. https://doi.org/10.3390/w17070945
13) Yu, R., Yao, Y., Tang, Q., Zhang, X., Shao, C., Fisher, J.B., **Chen, J**., Zhang, X., Li, Y., Xu, J. and Liu, L., 2025. Transfer learning in junction with a light use efficiency model for estimating grassland gross primary production. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. DOI 10.1109/JSTARS.2025.3549373
14) Xia, Y., J. Sanderman, J. D. Watts, M. B. Machmuller, A. Mullen, C. Rivard, A. Endsley, H. Hernandez, J. Kimball, S. Ewing, M. Litvak, T. Duman, P. Krishnan, T. Meyers, N. Brunsell, B. Mohanty, H. Liu, Z. Gao, **J. Chen**, M. Abraha, R. Scott, R. Bryant, G. Flerchinger, P. Clark, P. Stoy, A. Khan, J. Brookshire, Q. Zhang, D. Cook, T. Thienelt, B. Mitra, E. Pendall, M. Mauritz-Tozer et al. 2025. Coupling remote sensing with a process model for the simulation of rangeland carbon dynamics. *Journal of Avances in Modeling Earth Systems* 17(3), e2024MS004342. https://doi.org/10.1029/ 2024MS004342.
15) Falvo, G., Zhang, Y., Abraha, M., Mosier, S., Su, Y.J., Lei, C., **Chen, J**., Cotrufo, F., and G.P. Robertson. 2025. Combining eddy covariance towers, field measurements, and the MEMS 2 ecosystem model improves confidence in the climate impacts of bioenergy with carbon capture and storage. *Global Change Biology - Bioenergy*. 17: e70023. https://doi.org/10.1111/gcbb.70023
16) Hyvärinen, O. P., M. Te Beest, E. le Roux, GIH Kerley, R. Buitenwerf, D. J. Druce, **J. Chen**, L. Rapp, J. Fernandes, J. P. G. M. Cromsigt. 2025. Megagrazer loss drives complex landscape-scale biophysical cascades. *Environmental Research Letters 20*(2): 024028; **DOI** 10.1088/1748-9326/ada16e.
17) Shirkey*, G., R. John, A. Anctil, V. Kolluru, L. Mungai, H. Kashongwe, L. Cooper, I. Celik, Joshua Fisher, and **J. Chen**. 2024. Identifying opportunities for nature-based solutions with geospatialized life cycle assessments and fine-scale socioecological data. *Environmental Research Letters* 20(1): 014023; DOI: 10.1088/1748-9326/ad959e

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39) Chen, J. 2002. A pleasant trip to the 87th Annual ESA Meeting in Tucson, Arizona. Sino-Eco Newsletter 9(2): 13-15.
40) Chen, J. 2002. Book review on "The Plant Life of China", Choice, 10.
41) Chen, J. 2002. Book review on "Vegetation and the terrestrial carbon cycle: modeling of the first 400 million years (Beerling and Woodwoard). Choice, 6.
42) Chen, J. 2001. The Three Gorges Dam project: Report from SCB's Delegation to China. Society for Conservation Biology Newsletter, 5: 6.
43) Euskirchen*, E.S., R. Watkins, and J. Chen. 2000. Effects of Roads and Edges in a Fragmented Landscape in Northern Wisconsin, USA. Proceedings of the 4th Chinese Ecological Society. April 25, Hanzhou, P.R. China.
44) Chen, J., S. Bridgham, J. Pastor, J. Weltzin, X. Wang, C. Harth, B. Dewey, J. Keller, and K. Updegraff. 2000. Energy Flows in Peatlands and Temperature Responses to Heat and Water Loading a Mesocosm Approach. The 11th Annual Harvard Forest Ecology Symposium, April 3, 2000, Harvard University, Petersham, Massachusetts.
45) Chen, J. 1999. Book Review on "Discovered Alive: The Story of the Chinese Redwood" (William Gittlen). Choice, 36(11/12).
46) Chen, J. and L. Gerdes. 1999. Book Review on "Landscape Plants for Subtropical Climates". Choice, 36(9).
47) Chen, J. 1999. Book Review on "Sustainability of Temperate Forests". Choice, 36(7).
48) Chen, J. 1998. Book Review on "Temperate Agroforestry Systems". Choice, 35(1).
49) Chen, J. 1998. Book Review on "Placing Nature: Culture and Landscape Ecology". Choice, 35(8): 4482.
50) Chen, J. 1997. Book Review on "Ecosystem Management: Applications for Sustainable Forest and Wildlife Resources". Choice, 34.
51) Chen, J. 1997. Book Review on "Forestry for Human Development: A Global Imperative". Choice, 34, May.
52) Chen, J. and S. Saunders. 1996. Book Review on "Land Mosaics: The Ecology of Landscapes and Regions". Choice, 33: 11/12:1824.
53) Chen, J. 1996. Book Review on "Natural Management of Woods - Continuous Cover Forestry". Choice, 3: 1161.
54) Chen, J. 1995. Book Review on "Forest Ecosystems". Choice, 3: October 319-320.
55) Chen, J. 1984. Thoughts on Ecosystem Equilibriums. Graduate Newsletter, Academia Sinica, Vol. 4.

OTHER TECHNICAL TRAINING:

- 1999: ArcView Training course, Houghton, Michigan
- 1998: SPlus workshop, Albuquerque, New Mexico
- 1992: Three courses on basic, intermediate, and advanced C and C^{++} programming, Computer Center, University of Washington, Seattle, Washington

PUBLIC SERVICE:

1) News Media on Research

- "Plants' ability to fight climate change is weakening"; MSU Today; https://msutoday.msu.edu/news/2023/plants-ability-to-fight-climate-change-weakening, Aug. 23, 2023
- "Environmental scientist to prove socioeconomic impact on climatic change". ***UT News***. Nov. 4, 2013
- "Carbon sensor network to help UT researchers investigate algal blooms". ***UT News***. May 4, 2012
- "Environmental sciences professor honored as Fellow". ***UT News.*** Jan. 12, 2012
- "Research shows converting land for biofuel crops increases carbon debt". ***UT News***. Sept. 26, 2011
- Carbon Sequestration in US has increased, barring a drought, ***Science Direct***. (http://www.sciencedaily.com/releases/2011/04/110414131851.htm). April 18, 2011
- Interview with two groups of ENGL 2950: Science and Tech Writing, Univ. of Toledo, Feb. 15, 2010
- "Chen's Advanced Ecology Lectures at Fudan University" ***Science.*** 319: 151. 2008
- "UT project aims to create 1st online arboretum in the U.S." ***The Blade***. (http://www.toledoblade.com/apps/pbcs.dll/article?AID=2003106160114). June 16, 2003
- New Online Arboretum. ***Toledo News Now***, (http://www.wtol.com/Global/story.asp?S=1324305). June 17, 2003
- "NW Forest Undergoing Carbon Dioxide Study". ***Timber Processing Magazine***. Nov.1998
- "High above the Trees to Study a Douglas-fir Forest". ***The Forest Resource***. June 1997 (also on the "Public Broadcast Station" in June 1997)
- "Scientists Study Effect of Global Warming on Wetlands". ***Tech Topics***. Sept. 12, 1997
- "Tech Scientists Study Effects of Global Warming". ***Mining Gazette***. Sept. 10, 1997 (Also on the "Public Broadcast Station" on September 5, 1997)
- "Tech Researcher Will Monitor Key U.S. Forest". ***The Daily Globe***. Feb. 1997
- "Tech Researchers Are Involved in Landscape Management". ***Michigan Tech Lode.*** Oct. 31, 1997
- "Researchers Study Dynamics of Forest Landscape Management". ***Tech Topics.*** Nov. 14, 1997
- "Tech to Participate in Study of Wetlands". ***Manistee News***. Sept. 4, 1997
- "Michigan Tech Students Will Study Global Warming". ***Petoskey News Review***. Sept. 4, 1997
- "Michigan Tech to Study Global Warming, Wetlands". ***Ann Arbor News***. Sept. 4, 1997
- "Michigan Tech Join Wetlands Study". ***The Herald-Palladium***. Sept. 4, 1997
- "Michigan Tech to Study Wetlands". ***Evening News.*** Sept. 4, 1997
- "Tech Researchers Study Wetland Ecosystems". ***The Daily Globe***. Sept. 9, 1997
- "MTU Researchers Studying Effects of Timber Harvesting". ***The Daily Globe***. 21, 1997
- "MTU, USFS Study the Landscape". ***L'ANSE Sentinel***. Nov. 19, 1997
- "Studying Wetlands, Global Warming". ***L'Anse Sentinel***. Nov. 19, 1997

2) Earthwatch Team in NE China and Washington State

- 1997, 1996: In the summers of 1996 and 1997, I voluntarily organized Field Expeditions for Earthwatch. I supervised 14 people who volunteered for the program. The volunteers were from Australia, Ireland, the United Kingdom, New Zealand, Hong Kong, and the US.
- 1997: During the summer of 1997, I spent two weeks helping eight high school students experience canopy research in a Douglas-fir forest of Southern Washington.

2) Delegation Leader to China, Society for Conservation Biology, 9/2000

Presentations:

270

269 Saraf S, R John, V Kolluru, K Jain, J Wesner, M Jarchow, G Henebry, J Chen. 2025. Quantifying the effects of invasive plants particularly legumes on native diversity in relation to non-native plant composition and environmental drivers. Annual meeting of the International Association for Landscape Ecology—North America (IALENA), Raleigh, NC, 13-17 April. (poster)

268 Kolluru V, R John, J Chen, GM Henebry, J Xiao, R Shinde, M Kussainova, U Ganzorig. 2025. Leveraging sUAS-Sentinel-2 synergy for cross-scale mapping of canopy cover and aboveground biomass across Mongolia and Kazakhstan. Annual meeting of the International Association for

Landscape Ecology—North America (IALENA), Raleigh, NC, 13-17 April. (poster)

267 Chandel A, R John, **J Chen**, V Kolluru, K Jain, GM Henebry. 2025. Spatio-Temporal patterns of biomass, canopy cover, and livestock behavior in semi-arid Mongolian grasslands. Annual meeting of the International Association for Landscape Ecology—North America (IALENA), Raleigh, NC, 13-17 April. (poster)

266 Shope*, M., Y. Khajavigodellou, X. Lan, J. Chen. Coupled Human and Natural Systems, CHANS, SES, Frameworks, Human-Environment Studies. The 2025 AAG Annual Meeting, March 26, 2025, Detroit.

265 Shirkey*, G., A. Anctil, R. John, V. Kolluru, L. Mungai, H. Kashongwe, L. Cooper, I. Celik, J. B Fisher, J. Chen, Identifying opportunities for nature-based solutions with geospatialized life cycle assessments and fine-scale socioecological data. The 2025 AAG Annual Meeting, March 27, 2025, Detroit.

264 Chen, J. and others. Silk Road Cities through the Lens of Urban-Rural Continuum: Concept, Evidence and Modeling. The 2025 AAG Annual Meeting, March 28, 2025, Detroit.

263 Xu, H., J. Pang, J. Chen, X. Wei, W. Cao, G. Sun, Y. Xu, and Z. Zhang. Resilience of the large-scale ecological restoration: How water matters? HS10.2 - Forest Ecohydrology, EGU General Assembly, V**ienna, Austria**4/8/2025.

262 Groisman, P., I. *Melnikova*, S. *Maksyutov*, and **J. Chen**. Environmental, Socioeconomic, and Climatic Changes in Northern Eurasia. Organzied oral and poster sessions. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

261 **Chen, J**., et al., Cities along the Core Silk Roads: An Overview through the Lens of Urban-Rural Continuum (URC). The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

262 Kolluru V, Abhinav Chandel, R. John, **J. Chen**, et al. Developing 30m aboveground biomass and canopy cover estimates for Mongolia from 1990-2023. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

361 Kolluru V, R. John, S. Saraf, **J. Chen**, et al. Harnessing the potential of drone imagery and Sentinel-1 data for cross-scale mapping of above-ground biomass and canopy cover across Mongolia and Kazakhstan/. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

360 John, R., V. Kolluru, **J. Chen** et al. Multi-scale/multi-sensor estimates of canopy cover and above ground biomass trends in Mongolia and Kazakhstan. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

359 Fang, W., **J. Chen** et al. Land Cover and Ecosystem Productivity of Peri-Urban Landscapes in Central Asia. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

358 Xi, X., … **J. Chen** et al. Recent dust trends and extremes associated with land use management and jet stream dynamics over Northern Eurasia. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

357 Dai, J., **J. Chen**, … Landsat retrieved snow-free shortwave albedo underestimates the cooling effects of annual and perennial bioenergy crops. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

356 Liu, Z., **J. Chen**, et al. Asymmetric Diurnal Warming Effects on Carbon Fluxes in The Tibetan Plateau Alpine Ecosystems. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

355 Sara, S., … The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024…. Quantifying the Effects of Invasive Plants like Yellow Sweetclover on Native Plant Diversity in Relation to Non-Native Plant Composition and Environmental Drivers. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

354 Rodriguez, Leila, …**J. Chen**, et al. Ecosystem Responses to the 2024 Total Solar Eclipse: Insights from Eddy Covariance Towers. The 2024 AGU Annual Meeting, Washington D.C., 9-13 December, 2024

353 Karion, A., Ahlswede, B., Negri, C., Ricciuto, D., Perez-Ruiz, E., Bou-Zeid, E., Vivoni, E.R., Chen, G., Bohrer, G., Velasco, E., Chu, H., Horne, J., **Chen, J**., Frank, J., Davis, K., Parazoo, N., Rojas-Robles, N.E., Matamala, R., Murphy, S., Collis, S., Biraud, S., Metzger, S., Grimmond, S., Sun, X., Lee, X., Pan, Y., Pal, S., and Muryadyan, P. 2024. Land-Atmosphere Exchanges in Complex Urban Landscapes: From Process Diagnosis to Climate Impacts. Integrated Carbon Observation System Science

Conference 2024, Versailles, France, 77/10-7/12, 2024.

352 **Chen, J**. and P. Fan. The Realities of Ecosystem Services: Acknowledging the Imperfect Nature of Trees and Forests. The 26th World Congress of IUFRO, Stockhom, Sweden, 7/28/2024 (oral)

351 **Chen, J.** Albedo-Induced Warming Beyond Greenhouse Gases. The 1st Youth Ecology Forrum, Fuzhou, 4/13/2024

350 **Chen, J**. Sustainability Challenges for Social-Environmental Systems across Asian Drylands Belt (ADB). CARIN Research Webinar, NASA, 4/5/2024

349 **Chen, J**., P. Fan, and others. Reviving the Urban-Rural Continuum (URC): Navigating Renewed Challenges, International Meeting on Land Cover/Land Use Change (LCLUC) in South/Southeast Asia and Synthesis, Hanoi, Vietnam, Jan 31- Feb 2, 2024.

348 **Shope, M. Y. Khajavigodellou, X. Lan, J**. Bridging Gaps and Balancing Generalizability with Specificity - Coupled Human and Natural Systems Frameworks for Real-World Applications in a Changing World. SY52B-05: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

347 Falvo, G., Lei, C., **J. Chen**, and G.P. Robertson. Radiative Forcing from Deforestation is Partially Offset by Soil Conservation, Surface Albedo Modification, and Ecosystem Restoration. GC51L-0775: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

346 **Khajavigodellou, Y., J. Qi, J. Chen, N. Moore**, A. P. Nejadhashemi, Z. Zarrin. Reframing the WEF Nexus to Prevent WEF Bankruptcy: Transboundary River Basin Water - Energy - Food Bankruptcy Challenges and Potential Solutions. GC43O-04: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

345 **Shirkey, G**., R. John, A. Anctil, V. Kolluru, L. Mungai, **H. Kashongwe**, L. Cooper, I. Celik, **J. Chen**. Carbon Offset Potential of Midwest Agroecosystems: A Spatialized Life-Cycle Assessment Framework. B43F-2616: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

344 Groisman, P., **J. Chen,** N. M Tchebakova, Northern Eurasia Future Initiative (NEFI), Three Directions/Areas of Research. GC31J-1164: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

343 Kolluru V, R John, **J Chen**, S Saraf, **GM Henebry**, J Xiao, K Jain. Pixel-wise contribution and attribution of socioenvironmental system drivers to grassland degradation in Kazakhstan. Poster in Environmental, Socioeconomic, and Climatic Changes in Northern Eurasia session, AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

342 **Yuan, J.**, and **J. Chen**. Disproportionate Contributions of Land Cover and Changes to Ecosystem Functions in Kazakhstan and Mongolia. GC31J-1158: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

341 **Khajavigodellou, Y., J. Qi, J. Chen, N. Moore**, A. P. Nejadhashemi, Z. Zarrin. Transboundary Water Resource Conflicts: A New Cold War? SY11A-08: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

340 Xiao, J., **F. Li**, **J. Chen**, A. Ballantyne, K. Jin, B. Li, **M. Abraha, R. John**. Global water use efficiency saturation due to increased vapor pressure deficit. B13F-1971: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

339 Saraf, S., R. John, V. Kolluru, K. Jain, and **J. Chen**. Examining the causal mechanisms between anthropogenic disturbance, plant diversity, and invasive yellow sweetclover. B13E-1958: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

338 John, R., **J. Chen**, V. Kolluru, **G. Henebry**, S. Saraf, K. Jain, J. Xiao, A. Chandel, Interdependent Dynamics of Food, Energy, Water and grassland degradation estimates in Kazakhstan and Mongolia, GC21B-06: AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

337 **Chen, J**., R. John, L. Tian, W. Fang, V. Kolluru, S. Saraf, Y. Khajavigodellou, Z. Yang, M. E. Meurs, and B. Sat. Socioeconomic-Environmental Systems along the Silk Road across Asian Drylands Belt. GC21B-05. AGU Annual Meeting, San Francisco, CA, 11-15 December 2023.

336 Kolluru, V., John, R., Saraf, S., **Chen, J**., Hankerson, B., Robinson, S., **Kussainova, M**. and Jain, K., 2023. Gridded livestock density database and spatial trends for Kazakhstan. GC21F-0974; *Fall Meeting, AGU*, San Francisco, December 11-15, 2023.

338 Chen, J. Breaking Out of Our Shells: Advancing Ecosystem Science. The 12th International Symposium on Modern Ecology (ISOME-XII). Shanxi, 10/9/2023 (invited)

337 Chen, J. Climate change and renewable energy. Indo-US Workshop on Advanced Bio-based Energy and Value-added Commodity Production: Moving towards Next-generation Feed-based

Biorefineries. MSU, 9/21/2023

336 Chen, J. Climate Change: Disrupting the Norms, Climate Change and Health: A team-buidling Event. IGH/MSU. 9/15/2023 (invited).

335 Chen, J. Beyond Carbon and Toward a Holistic Understanding of Terrestrial Ecosystems in Regulating ClimateThe 2023 US-China Carbon Consorsium Annual Meeting, Nanjing, China, 7/26/2023 (invited talk)

334 Fan, Peilei, Zihan Lin, Joseph Messin, Soe W. Myint, and Jiquan Chen, building volume, transportation, and green spaces: Factors affecting urban heat island in a high-density metropolis. IALE 2023 World Congress, Nairobi, Kenya; 07/11/2023 (oral)

333 Chen., J., Li Tian, Venkatesh Kolluru, Peilei Fan, Wei Fang, Ranjeet John. Lasting Cities along the Core Silk Roads: An Overview through the Lens of Urban-Rural Continuum (URC). IALE 2023 World Congress, Nairobi, Kenya; 07/11/2023 (oral); https://iale2023.org/

332 Chen, J. Publishing Ecological Research in a Digital Era. IALE 2023 World Congress, Nairobi, Kenya; 07/13/2023 (oral)

331 Yuan, Jing, and Jiquan Chen. COS 303-3 - Disproportionate functional contributions of land cover type in Kazakhstan and Mongolia. The 2023 ESA Annual Meeting, Portland, OR; 8/10/2023 (oral)

330 Fang, W, Sakshi Saraf, Venkatesh Kolluru, Ranjeet John, Maxine Uebelacker, Jiquan Chen, Rashid Kulmatov, Alim Pulatov, Maira Kussainova, Kamilya Kelgenbaeva, and Saltanat Mambetova. COS 255-6 - Multi-decadal assessment of land cover shifts under climate change and urbanization in Central Asia. The 2023 ESA Annual Meeting, Portland, OR; 8/10/2023 (oral)

329 Lei, C., J. Chen, Peter B. Reich, Ines Ibanez, Pietro Sciusco, Ming Lei, and Gabriela Shirkey. COS 1-2 - An Evaluation of Surface Reflectivity for Candidate Bioenergy Crops. The 2023 ESA Annual Meeting, Portland, OR; 8/7/2023 (oral)

328 Chen, J., Housen, Chu, Margaret S. Torn, and G. Philip Robertson. COS 229-3 - Altered Land Surface Albedo Accounts Substantial High Cooling Benefit in the Changing World. The 2023 ESA Annual Meeting, Portland, OR; 8/10/2023 (oral)

327 Chen, C. Lei, G.P. Robertson. Likely Undervalued Climate Benefits of Radiative Forcing from Altered Land Surface Albedo during Land Conversions. NASA CCE Joint Science Workshop, 5/10/2023

326 Wei Fang, S. Saraf, V. Kolluru, M. Uebelacker, R. John, and J. Chen. Land cover changes and ecosystem productivity under the changing climate in Central Asia. NASA CCE Joint Science Workshop, 5/10/2023

325 John, R, V. Kolluru, J. Chen, Differentiating anthropogenic modification from climate-driven change in Kazakhstan. NASA CCE Joint Science Workshop, 5/9/2023

324 Chen, J. Beyond Carbon and Toward a Holistic Understanding of Terrestrial Ecosystems in Regulating Climate. 2023 Annual Meeting of the Editorial Borads, Hanzhou, China, 4/21/2023

323 Chen, J. Beyond Net Exchanges of Carbon, Water and Energy in Flux Studies. The 20th Anniversaory of ChinaFlux, 2/16/2023 (invited keynote)

322 Gabriela Shirkey[1], Ranjeet John[2], Jiquan Chen[3], Venkatesh Kolluru[4] and Reza Goljani Amirkhiz. Land Cover Land Use Change and Socioeconomic Influences on Terrestrial Carbon Production in a Southwest Michigan Watershed. GC35G-0779

321 Beibei Shen[1], Lei Ding[2], Leichao Ma[3], Zhenwang Li[4], Alim Pulatov[5], Zheenbek Kulenbekov[6], Jiquan Chen[7], Saltanat Mambetova[8], Lulu Hou[9], Dawei Xu[1], Xu Wang[1] and Xiaoping Xin[1]Modeling the Leaf Area Index of Inner Mongolia Grassland Based on Machine Learning Regression Algorithms Incorporating Empirical Knowledge. B15C-02

320 Grant Falvo[1], Yao Zhang[2], Michael Abraha[3], Samantha Mosier[1], Yahn-Jauh Su[3], Jiquan Chen[3], M Francesca Cotrufo[4] and Philip Robertson[1], Modeling the Global Warming Impact of Bioenergy Production Systems by Integrating Long Term Eddy Covariance, Remote Sensing, Plant Productivity and Soil Carbon Measurements. B43A-07, AGU Fall Meeting, Dec. 2022

319 Shirkey, G., R. John, J. Chen, V. Kolluru, R. Goljani Amirkhiz. Land Cover Land Use Change and Socioeconomic Influences on Terrestrial Carbon Production in a Southwest Michigan Watershed. Fall 2022 Meeting, AGU, 2/2022.

318 Chen, J. Beyond Carbon and Toward a Holistic Understanding of Terrestrial Ecosystems in Regulating Climate. Invited Speak, 2022 Maritime Silk Road International Conference on the

Cooperation and Integration of Industry, Education, Research and Application Geography, 11/25/2022 (invited)

317 Chen, J. LULCC Challenges in Carbon Cycle Science. Climate Rresearch Center, CSIRO, Canberra, 11/25/2022.

316 Chen. J. Beyond Carbon in Carbon Cycle Studies. International Blue Carbon and the 3rd Zhejiang Mangove Conservation and Development Forum, Wenzhou, Invited Keynote address, 11/18/2022

315 Falvo, G., Y. Zhang, M. Abraha, S. Mosier, Y.J. Su, **J. Chen**, M. Francesca Cotrufo. and P. Robertson, Modeling the Global Warming Impact of Bioenergy Production Systems by Integrating Long Term Eddy Covariance, Remote Sensing, Plant Productivity and Soil Carbon Measurements. AGU annual Meeting, Chicago, 15 December 2022

314 Shirkey, G., Ranjeet John, Jiquan Chen, Kyla Dahlin, Michael Abraha, Pietro Sciusco, Cheyenne Lei, and David E. Reed. Fine resolution remote sensing spectra improves estimates of gross primary production of croplands. The 2022 Annual AmeriFlux Meeeting, Univ Michigan Biological Station, Sept. 7-9, 2022

313 Kolluru, V., R. John, J. Chen, R. G. Amirkhiz, V. Giannico, R. Lafortezza. Non-linear and non-stationary interactions between vegetation dynamics and potential driving factors in Kazakhstan. Japan Geoscience Union Japan Geoscience Union Meeting 2022. Online Poster, 6/3/2022

312 Li, X., J. Chen, Q. Zhu, H. Zou, and Y. Dai. Albedo-induced global warming potentials in context of greenhouse gases in grasslands of East Asia. Japan Geoscience Union Japan Geoscience Union Meeting 2022. Oral, 5/26/2022

311 Yuan*, J., J. Chen, P. Sciusco, V. Kolluru, S. Saraf, R. John, and B. Ochirbat. Land use hotspots of two largest landlocked countries: Kazakhstan and Mongolia. Japan Geoscience Union Japan Geoscience Union Meeting 2022. Oral, 5/26/2022

310 Chen, J. Sustainability of the Macro Social-Environmental Systems in the Asian Drylands Belt (ADB). Japan Geoscience Union Japan Geoscience Union Meeting 2022. Oral, 5/26/2022

309 John, R., J. Chen, V. Kolluru, R. Goljani-Amirkhiz, V. Giannico, J. Yuan. Relative contributions of climatic change and socioeconomic trends on primary productivity in Kazakhstan and Mongolia. Japan Geoscience Union Japan Geoscience Union Meeting 2022. Oral, 5/26/2022

308 Groisman, P. and Chen, J. Northern Eurasia Future Initiative (NEFI), Three Regional Groups of the NEFI Studies. Japan Geoscience Union Japan Geoscience Union Meeting 2022. Poster, 6/3/2022

307 Abraha* M, J. Chen, S. K Hamilton, and G.P. Robertson Long-term evapotranspiration rates for corn and perennial bioenergy crops. *Great Lakes Bioenergy Research Center, 2022 Annual Science Meeting, Lake Geneva, Wisconsin, May 17-19, 2022 (oral)*

306 Abraha* M, P. Sciusco, J. Chen, S. K Hamilton, and G.P. Robertson. Long-term ecosystem carbon production and environmental controls over bioenergy crops. GLBRC Annual Science Meeting, genieva, WI, May 17-19, 2022 (poster)

305 Lei*, C., J. Chen, and G. Philip Robertson. Global warming potential of modelling the conversion of forest into bioenergy croplands: Case study at the Kellogg Biological Station. *2022 Annual Science Meeting, Lake Geneva, Wisconsin, May 17-19, 202* (poster)

304 Lei*, C., P. Scuisco, Emily Lindback, Gabriela Shirkey, Ming Lei, Jiquan Chen, G. Philip Robertson, Kaylee Peterson, Isabel Arrocha. Land Cover and Climate alters surface albedo during cultivation seasons. *2022 Annual Science Meeting, Lake Geneva, Wisconsin, May 17-19, 2022 (oral)*

303 Shirkey, G., John, R., **Chen, J**., Sciusco, P., Abraha, M., and Reed, D. 2022. Improving modeling of gross primary production through integrations of high-resolution remote sensing images. IALE Annual Meeting 2022. Virtual. 4/12/22.

302 **Chen, J.** Long-Term Ecological Research & Networks, Asia Hub/Nexus Annual Meeting, April 18 – 20, 2022

301 **Chen, J.** Albedo-Induced Global Warming Potentials of Terrestrial Ecosystems (GWP_{α}): Did IPCC Underestimate This Contrition? Max-Planck-Institute for Biogeochemistry, 1/20/2022

300 **Chen, J**. LEES Endeavors in Biodiversity Research in Changing Landscapes and Societies. German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, 1/12/2022

299 **Chen, J.** Sustainability Challenges for the Social-Environmental Systems across the Asian Drylands Belt. Department Colloquem, Georg-August University Goettingen, Goettingen, Germany. 11/30/2021

298 **Chen, J.** Sustainability Challenges for the Social-Environmental Systems across the Asian Drylands Belt. Martin Luther University, Department Colloquem, Germany. 11/4/2021

297 **Chen, J.** History of IUFRO Landscape Ecology Work Group (Video presentation). IUFRO Annual Meeting. 9/15/2021

296 **Chen, J**. Challenges and Potential Solutions for Urban Flux Studies: An Integration of Deep Learnings. Environmental System Science Principal Investigator Meeting, August 17-19, 2021

295 **Chen, J.** Deep learning and flux predictions: a new frontier for USCCC. The 17th USCCC Annaul Meeting, Virtual, 7/31/2021

294 Lei*. C., **Chen, J.**, Robertson. G.P. (2021). Global warming impacts of converting forest into bioenergy
croplands: Case study at the Kellogg Biological Station. *KBS-LTER Annual Science Meeting*. September 23rd, Hickory Corners, MI. Oral

293 Shirkey*, G**.**, John, R., Scuisco, P., Dahlin, K., Abraha, M., Lei, C., Reed, D., **Chen, J.** (2021). Modeling of gross primary production compared across scales in managed agricultural-grassland landscapes. *Specnet Fall Meeting*. Virtual. 10/29/21. Poster

292 **Chen, J.** Applications of biophysical models in flux studies. The 17th USCCC Annaul Meeting, Virtual, 7/30/2021

291 **Chen, J;** State and Change of the Asian Drylands Belt. CARIN Annual Meeting, May 6-7, 2021 (oral)-

290 **Chen, J**. Sustainability of the Macro Social-Environmental Systems across the Asian Drylands Belt. Department Seminar, Pace University, NY. 4/5/2021

289 Henebry, G M, G. RH Allington, J. Chen, K. de Beurs, P. Fan, P. Groisman, E. A Mack, H. H. Shugart, A. J. Soja, M. A. Tomaszewska. Looking Forward to 30 Years since the Disintegration of the USSR: Environmental and Socio-Economic Consequences of Fundamental Institutional Change amidst Changing Climates. AGU Fall Meeting 2020, 12/12/20.

288 **Chen, J**. A New Quantitative Measure of Macro Microeconomics-Ecological Systems. V International Agritechnological Summit, Almaty, Kazakhstan, 12/3/2020

287 **Chen, J**. $·Person-1·Yr-1 ·mm-1: An integrative Metric for SESometry. IALE/ELI 2020 Conference, University of Bucharest, Romania, Sept. 6-8, 2020.

286 **Chen, J**. Global Change: Ecosystems, People and Society. SSJ Summit for the Justice 2020, 3/6/2020

285 **Chen, J**. FEW Research in Kazakhstan. Delegation of Kazakhstan Directors to MSU. Feb. 27, 2020 (Invited)

284 **Chen, J**. Last frontiers of Nomadic Communities in Mongolia and Kazakhstan. MSU's Environmental Journalism Program – Undergraduate Program. Feb. 19, 2020. (invited)

283 Helbig, Mannuel et al. Peatland-dominated boreal ecoregions at risk of drying in a warmer climate (Oral) The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

282 Dahlin, K., D. Akanga, D.L. Lombardozzi, D.E Reed, G. Shirkey, M. Abraha and **J. Chen**. A watershed-scale approach to understanding socio-ecological systems: Combining multiple data streams to assess a land surface model (oral) The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

281 Reed, D.E Reed, J. M Poe, M. Abraha, **J. Chen** and A. R Desai. Geospatial Coherence and Modelling of Land-Surface Fluxes (poster). The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

280 John, R., **J. Chen**, and J. Zhao. Interdependent dynamics of food, energy and water in Kazakhstan and Mongolia: Connecting LULCC to the transitional socioecological systems (poster). The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

279 Reed, D. E, C. Lei, W. J Baule, G. Shirkey**, J. Chen** and K. Czajkowski. Impact of urbanization on land-atmosphere heat fluxes (oral). The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

278 **Chen, J**., H. Park, Z. Ouyang, R. John and P. Fan**.** Urban landscapes in culturally-contrasting societies (poster). The 100th AGU Fall Meeting, San Francisco, Dec. 9-13.

277 **Chen, J**. Sustainability of the Drylands across Eurasia: Interdependency of Nature and Societies. Invited EPSSI Seminar, Michigan Tech University, 11/19/2019

276 Sciusco, P., **J. Chen**. Vegetation Indices from VENμS and Sentinel-2 at Corn and Soybeans in Southwestern Michigan, USA. The 4th COSPAR Symposium. Hetzliya, Isael, Nov 4-11, 2019 (posterl)

275 **Chen, J**., P. Sciusco, and others. Remote Sensing Modeling of Ecosystem Productivity and Evapotranspiration: New Insights from VENμS. The 4th COSPAR Symposium. Hetzliya, Isael, Nov 4-11, 2019 (oral)

274 **Chen, J.** The rises and falls of SES in Dryland Asia. 16th USCCC Annual Meeting, Hulunbuir, China, July 26, 2019

273 **Chen, J.** Scienctific Writing in Ecology. 16th USCCC Annual Meeting, Hulunbuir, China, July 25, 2019

272 **Chen, J.,** G. Henebry, R. Lafortezza, P. Fan, D. Roy, and G. Sanesi. Connecting Ecosystem Functions to Landscape Structure at Right Scales: Beyond Correlation Analysis. 10th IALE World Congress, Milano, Italy, 7/4/2019

271 **Chen, J.** Socio-Ecological Systems across the Asian Drylands Belt (ADB). National Institute for Environmental Studies, Tsukuba, Japan, 5/29/2019

270 **Chen, J**., P. Sciesco, R. John et al. Carbon and water fluxes at high spatial resolutions through down-scaling. Japan Greoscience Union Meeting, 5/28/2019, Chiba, Japan

269 **Chen, J**., Z. Ouyang, C. Shao, et al. Rises and falls of the socioeconomic-ecological systems along the silk road. Japan Greoscience Union Meeting, 5/26/2019, Chiba, Japan

268 Shirkey, G., D. Reed, R. John, P. Sciusco, L. Cooper, K. Watson, and **J. Chen.** B51J-2089 Transposing Socioeconomic and Qualitative Research into a Historical, Landscape-scale Assessment of Carbon Stock in Agricultural-Forestland. AGU 2018 Fall Meeting, 12/14, Washington D.C. (poster)

267 Pavel Ya Groisman… **J. Chen**, et al. GC33E-1414 Contemporary Environmental Changes over the Dry Land Belt of Northern Eurasia and Their Consequences. AGU 2018 Fall Meeting, 12/12, Washington D.C. (poster)

266 Abraha, M., S. Hamilton, **J. Chen**, and P Robertson. B33I-2800 Evapotranspiration of Annual and Perennial Biofuel Crops. AGU 2018 Fall Meeting, 12/12, Washington D.C. (poster)

265 Wu, X., X. Xiao, Y. Zhang, W. He, S. Wolf, **J. Chen** et al. B31N-2678 Spatiotemporal consistency of four gross primary production products and solar-induced fluorescence in response to climate extremes across CONUS in 2012. AGU 2018 Fall Meeting, 12/12, Washington D.C. (poster)

264 Poe, J., D. E Reed, **J. Chen**, M. Abraha, A. R Desai, and S. Metzger. B33I-2799 Spatial coherence of carbon flux towers in Midwest ecosystems. AGU 2018 Fall Meeting, 12/12, Washington D.C. (poster)

263 Reed, D., J. M Poe, M. Abraha, J. and **J. Chen**. B21D-06 Fluxes from Across the Street: Using Artificial Neural Networks to Model Carbon Cycling from Paired Flux Sites. AGU 2018 Fall Meeting, 12/11, Washington D.C. (oral)

262 Fer, I. M. Dietze, A. R Desai, M. Gough, K. A Novick, M., A. Arain, **J. Chen**. B41N-2918 How can hierarchical Bayesian calibration of a dynamic vegetation model help with ecological forecasts? (poster)

261 **Chen, J.** and 21 others. GC32A-05 Socio-Environmental Systems (SES) on the Changing Mongolian Plateau: A review. AGU 2018 Fall Meeting, 12/12, Washington D.C. (Oral)

260 **Chen, J**. USCCC: Review & Perspectives, The 15th USCCC Annual Meeting, Jiujiang, Aug. 15-17, 2018.

259 Zhang, Y., **J. Chen**, R. John. 2018. Livestock, Herders and Pastoral Resources in Changing Society and Environment in Mongolia. Presented at the 8th EAFES (East Asian Federation of Ecological Societies) International Congress, Nagoya University, Nagoya City, JAPAN. April 21-23, 2018,

258 John, R., **J. Chen**, W. Ma, H. bPark, S. Hession. SYMPOSIA-13: Untangling the Effects of Human Influence on Above Ground Biomass from Precipitation Driven Changes on the Mongolian Plateau. The US-IALE Annual Meeting, Chicargo, 4/9/2018.

257 Tian L., **J. Chen**, R. John, C. Shao, X. Xin. POSTER: Interdependent of ET-LAI-Albedo Across the Roofing Landscapes: Mongolian and Tibetan Plateau. The US-IALE Annual Meeting, Chicargo, 4/9/2018.

256 Crankv C, **J. Chen**, R. John. Land use and land cover change in a typical Midwest watershed in relation to socio-ecological factors. The US-IALE Annual Meeting, Chicargo, 4/9/2018.

255 Fitzpatrick, L., A. Fujisaki-Manome., A. Gronewold, E. J. Anderson, C. Spence, **J. Chen**, C. Shao, D. J. Posselt, D. M Wright, B. M Lofgren, and D. J Schwab. Reconstructing Heat Fluxes Over Lake Erie During the Lake Effect Snow Event of November 2014. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

254 Moore, N. J., R. John, and **J. Chen**, Landscape dynamics and different climate forcings in eastern Mongolia. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

253 ***Chen, J.*** Society and Ecosystem Carbon Budget through Life Cycle Assessment: Results from Asian Drylands. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

252 Li, F., Y. Zeng, **J. Chen**, and B. Wu. Grassland Aboveground Biomass in Inner Mongolia: Dynamics (2001-2016) and Driving force. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

251 Huang, K.., J. Xia, Y. Wang, A. Ahlström, C. Schwalm, D. N Huntzinger, **J. Chen**, R. B Cook[7], Y. Fang, J. B Fisher, A. R Jacobson, A. Michalak, K. M Schaefer, Y. Wei, L. Yan and Y. Luo. Enhanced vegetation growth peak and its key mechanisms. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

250 Abraha*, A., S. K Hamilton, **J. Chen**, G P Robertson, and I. Gelfand. Carbon Debt of CRP Lands Converted to Annual and Perennial Bioenergy Crops. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

249 Yang, Z. M. Lin, H. Park, S. Qian**, J. Chen** and P. Fan. Mapping Regional Impervious Surface Distribution from Night Time Light: The Variability across Global Cities. The 2017 AGU Annual Meeting, New Orleans, 8-15/12/2017

248 **Chen, J.** Scientific Endeavors at the LEES Lab. Shizihe University, 12/11/17

247 **Chen, J.** Mitgating crop production risks in changing climate. Central Asian Agtech Summit, Invited presentations, 12/8, 2017.

246 **Chen, J.** Institution in Ecosystem Analysis: A Forgotten Driver. Distinguished Ecologist Lecture Series (DELS), School of Forest Resources and Environmental Science, Michigan Tech University, Oct. 26, 2017.

245 **Chen, J.** Vegetation in Anthropocene: A Postcard from Mongolian Plateau. The 60th Annual Symposium, International Association for Vegetation Science (IAVS), Palermo, Italy June 20-24, 2017. **Keynote Address.**

244. **Chen, J.** Urban Ecosystems and Landscapes in a Changing World. Wenzhou Sub-tropical Agricultural Institute. May 25, 2017.

243 **Chen, J.**, R John, G Allington, F Li, C Shao, Y Zhang, DG Brown, J Qi, B Gang, ME Fernández-Giménez. Japan Geoscience Union Meeting, May 20, 2017, Chiba, Japan

242 Shirkey, G., **Chen, J.**, John, R., Park, H., Liang, M., and Giannico, V. 2017. Contributions of tree mortality to C accumulation in an oak savanna system: a decadal summary. Poster session. Association of American Geographers. Boston, MA. April 7, 2017.

341 Yang, Z., **J. Chen**, and others**.** Hybrid global urban built-up area: Bayesian sequential integration toward big data. The 2017 Annual meeting of ILAE, April 9-13, Baltimore.

340 Park, H., P. Fan, R. John, and **J. Chen.** Urban sprawl, informal settlements, and inequality: Spatiotemporal patterns and drivers of Ger districts in Ulaanbaatar, Mongolia. The 2017 Annual meeting of ILAE, April 9-13, Baltimore.

339 Fan, P., **J. Chen**, and others**.** Urban landscape evolution under globalization and transitional economy: An integrated framework for Siberian cities. The 2017 Annual meeting of IALE, April 9-13, Baltimore.

338 Fan, P., **J. Chen**, and J. Wu**.** Evolving landscapes under institutional change, globalization, and cultural influence in contrasting urban systems: An introduction. The 2017 Annual meeting of IALE, April 9-13, Baltimore.

337 **Chen, J.,** and others. Permanent physical and social landmarks constrain urban landscape development and function in culturally contrasting societies. The 2017 Annual meeting of IALE, April 9-13, Baltimore.

336 **Chen, J**., K. Dahlin, R. John, G. Shirkey, S. R. Wu, P. Robertson, S. Hamilton, L. Cooper, D. Lusch, and A. Karnieli, R. Lafortezza, and G. S. Labini. Socioecological Carbon Production in Managed

Agricultural-Forest Landscapes. 2017 Joint NACP & AmeriFlux PI Meeting, March 27-30, 2017, North Bethesda, MD, USA

335 **Chen, J**., K. Dahlin, R. John, G. Shirkey, S. R. Wu, P. Robertson, S. Hamilton, L. Cooper, D. Lusch, and A. Karnieli, R. Lafortezza, and G. S. Labini. Socioecological Carbon Production in Managed Agricultural-Forest Landscapes. Worldcover 2017 Conference, 14–16 March 2017, Rome, Italy

334 Abraha, M., I. Gelfand, S. K. Hamilton, C. Shao, Y.J. Su, G P. Robertson, and **J. Chen**. Ecosystem carbon budgets under contrasting land use histories using eddy covariance and deep core methods. Fall AGU Meeting, 12/12-16, 2016, San Francisco, CA.

333 **Chen, J**. Renewed Challenges: People vs Environment. Wenzhou University, 11/4/2016

332 **Chen, J.** Hypotheses in ecosystem studies, Institute of Subtropical Research, 11/3/2016

331 **Chen, J**., R. John, C. Shao, Z. Ouyang, E. Mack, R. Lafortezza, and J. Qi. Asian dryland hierarchies in rapidly evolving institutional environments. The 3rd Open Science Meeting, Global Land Programme, Beijing, China, 10/27-27, 2016.

330 Fan, P., **J. Chen**, Z. Naing, Z. Ouyang, K., Nyunt, Z., Myint, and J. Qi. Extreme climate events, globalization, and capital relocation: telecoupling and urbanization in Yangon, Myanmar. The 3rd Open Science Meeting, Global Land Programme, Beijing, China, 10/27-27, 2016

329 **Chen, J.** Ecosystems and Societies in Asian Drylands. Beijing Agricultural University, 7/15/2016

328 **Chen, J.** People, Ecosystems and Environment in Dryland Asia. Inner Mongolia University, 6/27/2016

327 **Chen, J.** A Few Random Thoughts on the Future of Tower-Based Flux Studies. 13th USCCC Annual Meeting, Beijing Forestry University, 6/25/2016

326 **Chen, J.** Renewed Challenges: People vs Environment. Shanxi University, 6/20/2016

325 **Chen, J**, C. Shao, Z Ouyang, C Stepiens, etc. Algal blooms can turn Lake Erie to a carbon sink. The 59th Annual Conference on Great Lakes research, University of Guelph, June 6-10, 2016

324 **Chen, J.** The CNH dynamics and LULCC on Mongolia Plateau. The CEME Workshop, Harvard Forest, 2/5-6, 2016.

323 Soja, A. **J. Chen**. Synthesis of Decades of Change in Northern Eurasian Ecosystems: Current Assessment and Future Projections. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

322 John, R., **J. Chen**. Remote Sensing-based estimates of herbaceous aboveground biomass on the Mongolian Plateau. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

321 Abraha, M. … **J. Chen**. Land use history, ecosystem type and species composition drive water use efficiency in annual maize and perennial grasslands in a humid temperate climate. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

320 Moore, N., **J. Chen**… How Has Land Cover Change Affected Precipitation for the Mongolian Plateau Since 2001? AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

319 Shao, C. **J. Chen**. Grazing Effects on Water Use Efficiency on a Mongolian Desert Steppe. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

318 Noormets, A., **J. Chen**, et al. 2015. Effects of Forest Management on Productivity and Carbon Sequestration: A Review and Hypothesis. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

317. Paple, D., **… J. Chen**, 2015. Do We Need Larger Eddy Covariance Site Networks? Sites Spatial Distribution and Network Size Effect on Carbon and Water Fluxes Upscaling Using Empirical Models. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

316 Gelfand, I, **J. Chen**. 2015. Diurnality of soil nitrous oxide (N_2O) emissions. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

315 Zhang, X, …**J. Chen, et al.** 2015. Biogeochemical and biophysical climate regulation services from converting native grassland to bioenergy production in the US Midwest. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

314 **Chen, J**. and others. Regulations of evapotranspiration and ecosystem productivity from biophysical and human drivers in drylands Northern Eurasia. AGU Fall Meeting, Dec. 12-19, 2015. San Francisco, CA.

313 Wu, R. M. Green**, J. Chen**, Y. Tang, A. Yang. Green Building Design and Visual Persuasion on Pro-environmental Behaviors of the Occupants. The 49th International Conference of Architecture; Science Association. Australia, Dec. 2-4, 2015.

312 Fan, P., L. Xu, W. Yue, and **J. Chen**. Planning green infrastructure in new urban periphery. The IUFRO-LE Bi-Annual Conference, Tartu, Estonia, 8/26/2015

311 **Chen, J.** Landscape Ecology Working Party in Current and Future Society. The IUFRO-LE Bi-Annual Conference, Tartu, Estonia, 8/26/2015

310 **Chen, J**. Dynamics of coupled natural and human systems on the Mongolian Plateau. The 100th ESA Annual Meeting, Baltimore, 8/9-8/14/2015

309 Abraha, M**, J. Chen**, et al. Water use efficiency of annual corn and perennial grasses. The 100th ESA Annual Meeting, Baltimore, 8/9-8/14/2015

308 Shao, C., **J. Chen**, et al. Grazing effects on energy fluxes in a desert steppe on the Mongolian Plateau. The 100th ESA Annual Meeting, Baltimore, 8/9-8/14/2015

307 Su, YJ, **J. Chen**, et al. Soil respiration variations respond to microclimate variations in biofuel crop ecosystems. The 100th ESA Annual Meeting, Baltimore, 8/9-8/14/2015

306 **Chen, J**. Frontiers and new directions in flux measurements, The 12th USCCC Annual Meeting, Shanghai, Aug. 1, 2015

305 **Chen, J**. CNH research and scientific writing. Invited Seminar, Subtropical Research Institute, Aug. 29, 2015

304 **Chen, J**. Harmonizing people and nature. Invited Seminar Series, Huadong Normal University, Aug. 2, 2015

303 **Chen, J**. Harmonizing people and nature. Education in The Social Science, Michigan State university, July 23, 2015

302 Zhang, X. K. Zhao, M. Abraha, I. Gelfand, R. C. Izaurralde, A. M. Thomson, S. K. Hamilton**, J. Chen**, G. P. Robertson, M. Xu, X. Liang. Changes in biophysical climate regulation services from converting native grassland to bioenergy production in the US Midwest. NASA Carbon Cycle and ecosystems Joint Science Meeting, College Park, April 21-24, 2015.

301 Fan, P**., J. Chen**, and R. John. Urban landscape and environment change during the economic transition in Mongolian Plateau: A comparative study of Hohhot and Ulaanbaator, 1990-2010. NASA Carbon Cycle and ecosystems Joint Science Meeting, College Park, April 21-24, 2015.

300 **Chen, J**. R. John, D. Brown, C. Shao, G. Allington, Q. Zhuang, J. Xiao, Y. Xie, G. Sun, P. Fan, J.Qi. **LCLUC Synthesis: Ecosystem-Society Interactions on a Changing Mongolian Plateau.** NASA Carbon Cycle and ecosystems Joint Science Meeting, College Park, April 21-24, 2015.

299 **Chen, J**. Z. Ouyang, R. John, G. Dong, P. Fan. Co-Evolutions of Ecosystems, Society, and Economy in Dryland Asia. AGU Annual Meeting. Vienna, Austria, 4/17/2015

298 **Chen, J.** Synthesis on drylands for FENI. Ten years of Northern Eurasia Earth Science Partnership Initiative Research: Synthesis and Future Plans Prague, Check, April 10, 2015.

297 **Chen, J.** Harmonizing nature and people. Hanover Seminar Series (invited), Dept. of Forestry, MSU. March 17, 2015.

296 Liu, Y., **J. Chen**, et al. Impacts of Changing Climate and Land Cover on Water and Carbon Dynamics in Northern Eurasia. The AGU Annual Meeting, Dec. 17, 2014.

295 John, R**., J. Chen**, et al. Differentiating between Land Use and Climate-driven Change using Long–term Vegetation Index Trends adjusted for Precipitation on the Mongolian Plateau. The AGU Annual Meeting, Dec. 17, 2014.

294 **Chen, J**. Divergences of Two Coupled Human and Natural Systems on the Mongolian Plateau. The AGU Annual Meeting, Dec. 17, 2014.

293 **Chen, J**. Policy Shifted the Functional Relations of Coupled Human and Natural Systems on the Mongolian Plateau. The AGU Annual Meeting, Dec. 17, 2014.

292 **Chen, J.** Water and ecosystem services. Water Management Short Course for Mexico Natural Resources Admin, Water Center, Sept. 10, 2014

291. Chu, H., **J. Chen**, J. F. Gottgens, G. Sun., and C. Shao (2014). Contrasting the interannual variability of evapotranspiration in a temperate oak woodland, a freshwater marsh and a conventional cropland. 2014 Symposium on "Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond", Raleigh, NC, USA, (Oral presentation #1876859) April 7–11, 2014

290. **Chen, J.** An empirical for diurnal air temperature pattern from clear-cut edge into the old-growth Douglas-fir forest. The 7th U.S. Landscape Ecology Symposium. Corvallis, OR, 1992.

289. **Chen, J.** Managing forest edges to improve habitat conditions. The 7th U.S. Landscape Ecology Symposium. Corvallis, OR, 1992.
288. **Chen, J.** Integrating edge effects into a landscape perspective -- a simulation approach. The 7th U.S. Landscape Ecology Symposium. Corvallis, OR, 1992.
287. **Chen, J.** Defining landscape patterns of biotic and abiotic variables. The 6th Annual Meeting of the Society for Conservation Biology. Blacksburg, VA, 1992.
286. **Chen, J.** Microclimatic pattern and its variability in the interior old-growth Douglas-fir forest. The 77th Annual ESA Meeting. Honolulu, HI, 1992.
285. **Chen, J.** Microclimate and forest vegetation features across riparian buffers. CSS and ONRC "Opportunities and Frontiers in Watershed Management" Presentations, 1992.
284. **Chen, J.** Spatial characteristics of an old-growth spruce-fir forest. The 8th U.S. Landscape Ecology Symposium. Oak Ridge, TN, 1993.
283. **Chen, J.** Forest edges and edge effects: from stands to landscapes. (invited) School of Forestry and Wood Products at Michigan Technological University, Houghton, MI, 1993.
282. **Chen, J.** Emerging concepts of landscape ecology and management. (invited) School of Forestry and Wood Products, Michigan Technological University, Houghton, MI, 1993.
281. **Chen, J.** Edge effects on understory frequency, cover, and flowering in an old-growth Douglas-fir forest in southwestern Washington. 78th Annual Meeting of the ESA, Madison, WI, 1993.
280. **Chen, J.** Non-growing season temperature and moisture gradients from a south-facing edge into the old-growth Douglas-fir forest. 78th Annual Meeting of the ESA, Madison, WI, 1993.
279. **Chen, J.** Natural and anthropogenic edges in forest landscape and their influences on ecological processes. The 78th Annual Meeting of the ESA, Madison, WI, 1993.
278. **Chen, J.** The importance of edges in understanding ecosystem interactions and landscape mosaics. 1993), ESA Symposium, Organized by **Jiquan Chen** and Gay Bradshaw, 78th Annual Meeting of the ESA, Madison, WI, 1993.
277. **Chen, J.** Patterns and scales of biotic and abiotic variables across forested ecosystems/landscapes. An Ecolunch Seminar, Houghton, Michigan, 1994.
276. **Chen**, Naiman, and Franklin. Microclimate across riparian ecotone. The International Workshop on Ecotone, Seattle, WA, 1994.
275. **Chen**, Naiman, and Franklin. Influences of riparian buffers on microclimatic gradients across stream ecosystems. The 9th Annual U.S. Landscape Ecology Symposium, Tucson, AZ, 1994.
274. **Chen** and Brosofske. Changes in microclimate from streams to uplands in managed landscapes understanding microclimate in ecosystem management. The Ecosystem Management Strategies for the Lake Superior Region - a Conference and Workshop Applicable to the Great Lakes Region, Duluth, MN, 1994.
273. **Chen, J.** Ecological characteristics across multiple spatial and temporal scales. Deans' Tour, Ashland, WI, 1995.
272. Silbernagel, **Chen**, Gale, Martin, Pregitzer, and Probst. Patterns of settlement related to landscape ecosystems in the eastern Upper Peninsula of Michigan. Tenth Annual U.S. Landscape Ecology Symposium, 1995.
271. Saunders, **Chen**, Brosofske, and Crow. Predicting spatial and temporal pattern of microclimate in managed forest landscape. Tenth Annual U.S. Landscape Ecology Symposium, 1995.
270. Song, **Chen**, Bradshaw, Reed, and Franklin. A hierarchical approach for modeling canopy structures and heterogeneity: from crowns to canopy. The 80th Annual Meeting of the ESA, Snowbird, UT, 1995.
269. Chen, Brosofske, Naiman, and Franklin, Vegetation characteristics across streams in western Washington. The 80th Annual Meeting of the ESA, Snowbird, UT, 1995.
268. Saunders, Song, Reed, and **Chen**. Spatial and temporal relationships in growth characteristics of northern hardwood forests. Modeling longitudinal and spatial correlated data: methods, applications, and future directions. Nantucket, MA, 1996.
267. **Chen**, Crow Brosofske, Saunders, and Xu. Microclimatic Perspectives in forest ecosystems and landscapes. IUFRO Landscape Ecology Workshop, 1996.
266. Song, Rudnicki, and **Chen**. Examining the relationship of overstory structure to understory microclimate and vegetation. IUFRO Landscape Ecology Workshop, 1996.

265. Saunders, **Chen** and Crow. The nature of variation in the relationship between abiotic and biotic landscape characteristics within and among structural patch type. IUFRO Landscape Ecology Workshop, 1996.
264. Silbernagel, **Chen**, Gale, and Crow. Dealing with multi-scale data sets in documenting landscape structure changes. IUFRO Landscape Ecology Workshop, 1996.
263. Quantifying 3-D canopies: a modeling approach. 2nd Open House Meeting at Wind River Canopy Crane Site. Wind River, WA, 1996.
262. Site characteristics of wind river canopy crane facilities. AmeriFlux Network Workshop, St. Louis, MO, 1996.
261. Brosofske, **Chen**, Crow, and Saunders. Plant diversity at multiple scales across a northern Wisconsin pine barrens landscape. 1997 Annual Meeting, Ecological Society of America, Albuquerque, NM, 1997.
260. **Chen, J.**, M. Xu, and A. Mclean. Predicting air and temperatures in a forested landscape using Landsat TM thermal data and ground measurements. Annual Meeting, Ecological Society of America, Albuquerque, NM 1997.
259. Song, B., **J. Chen**, M. Rudnicki. The relationship between canopy structure and the pattern and process of the understory. Annual Meeting, Ecological Society of America, Albuquerque, NM, 1997.
258. Saunders, S. K. Brosofske, **J. Chen**, and T. Crow. Hierarchical relationships between landscape structure and temperature in a managed forest landscape. Annual Meeting, Ecological Society of America, Albuquerque, NM, 1997.
257. Rudnicki, M. and **J. Chen**. Spatial and temporal variation of radial growth rates in an old-growth Douglas-fir forest. Annual Meeting, Ecological Society of America, Albuquerque, NM, 1997.
256. **Chen, J.** and K. Brosofske. Spatial relationship between canopies and understory vegetation in an old-growth spruce-fir forest. Annual Meeting, Ecological Society of America, Albuquerque, NM, 1997.
255. **Chen, J.** Co_2 and H_2o fluxes using a mobile eddy-flux system. WESTGEC/NIGEC Meeting, Wind River, WA, 1998.
254. **Chen J.** Alternative management at landscape scales. Bad River Watershed Management conference, WI, 1998.
253. **Chen J.** CO_2 and h_2O fluxes of an old growth and young stand. Research Priorities for Future MOFEP, MOFEP Annual Meeting, Wind River, WESTGEC/NIGEC, Jefferson City, MO, 1998.
252. Fan, W., **J. Chen**, K.D. Brosofske, and D. Zheng, Landscape-level effects of alternative forest management on nitrogen mineralization in the Chequamegon National forest, WI, 1998
251. Paw U, K.T., **J. Chen**, S. Ustin1, T. Suchanek, X. Wang, T. King, M. Falk, T. Hsiao and R. Shaw Carbon and water flux of Douglas-fir forests in southern Washington. Wind river, WA (**J. Chen** as oral presenter), 1998
250. Wang, X., **J. Chen**, Scott Bridgham, Karen Updegraff[2], and John Pastor. Responses of radiation balance and temperatures to increased infrared loading in northern peatland ecosystems. ESA Annul meeting (oral presentation), 1999
249. Brosofske, Saunders, **Chen**, Drummer, and Gustfason. Identifying scales of pattern in ecological data: a comparison of lacunarity, spectral, and wavelet analyses. IALE Meeting, Fort Collins, CO, 1999.
248. Bridgham S.D., J. Pastor, **J. Chen**, J. Weltzin, X. Wang, K. Updegraff, C. Harth, P. Weishampel, and J. Keller. Climate change impacts on northern peatlands: a manipulative approach. Joint Science Team Meeting TCP, Per, and NIGEC, Indianapolis, IN (Poster), 1999.
247. **Chen, Jiquan**, Xinli Wang**,** Kyaw Tha Paw U, Tom Suchanek, Susan Ustin, Tom King, Ted Hsiao, Roger Shaw, and Matthias Falk**.** Net ecosystem exchanges of materials and energy of coniferous forests in the Pacific Northwest. Joint Science Team Meeting TCP, Per, and NIGEC, Indianapolis, IN, 1999.
246. Bridgham, S. D., J. Pastor, **J. Chen**, J. Weltzin, X. Wang, K. Updegraff, C. Harth, P. Weishampel, and J. Keller. Climate change impacts on northern peatlands: a manipulative approach. Poster Presented at Conference Titled "How Nutrients Cycles Constrain Carbon Balances in Boreal Forests and Arctic Tundra," Organized on Behalf of GCTE (Global Change and Terrestrial

Ecosystems) Core Project of the IGBP (International Geosphere Biosphere Program), Abisko, Sweden, 1999.

245. Phillips, Bond, **Chen**, McDowell, Paw U, Ryan, Xinli, BI. Is forest transpiration a conservative hydrological process? A comparison of young and old growth forest water use. AGU Annual Meeting, San Francisco, CA, 1999.
244. Brosofske, K.D., **J. Chen**, and E.J. Gustafson. Modeling effects of broad-scale forest management on understory vegetation. The 2000 ESA Annual Meeting, Snowbird, UT, 2000.
243. Fan, W., **J. Chen** and K.D. Brosofske. The scale dependency of the relationship between litter quantity and nitrogen mineralization in forest ecosystems and landscapes. The 2000 ESA Annual Meeting, Snowbird, UT, 2000.
242. Ma, S., **J. Chen**, M. North, and M. Jurgensen. Soil respiration rate (SRR) among patches of a heterogeneous mixed-conifer forest in a Mediterranean climate. The 2000 ESA Annual Meeting, Snowbird, UT, 2000.
241. Mislivets*, M., Sari C. Saunders, Dave C. Cleland, and **Jiquan Chen**. Landscape Structure Induced by Roads at different ecological levels in the Northern Great Lakes region, USA. The 2000 IALE Annual Meeting, Ft. Lauderdale, FL, 2000.
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125. **Chen, J.**, R. John, N. Lu, G. Sun, C. Shao, L.Li, S. Wan, K. Guo, Q. Mu, and M. Zhang, and J. Xie· Climatic Change and Its Consequences on Gross Primary Production, Evapotranspiration, and Water Use Efficiency on Mongolia Plateau. The IUFRO Landscape Ecology Working Party, Bragança, Portugal. Sept. 21–27, 2010.
124. **Chen, J**., R. John, F. Zhang, C. Shao, L. Li, N. Lu, L. Zhen, and Y. Zhang. Predicting Regional Plant Diversity and Ecosystem Productions of Carbon and Water from Distance. Drylands, Deserts and Desertification: *The Route to Restoration*, Sede Boqer Campus, Israel, Nov. 8-11, 2010.
123. **Chen, J**. C. Shao, L. Li, N. Lu, R. John, S. Chen, L. Zhen, Y.i Zhang, and O. Batkhishig. Carbon and Water Fluxes of Semiarid Mongolia: Coupled Effects of Climate and Land Use. Drylands, Deserts and Desertification: *The Route to Restoratio,* Sede Boqer Campus, Israel, Nov. 8–11, 2010.
122. Zenone, **J. Chen**, Hamilton, and G. P. Robertson. CO_2 fluxes in transitional bioenergy crop: effect of land use change. AGU Annual Meeting, San Fransico, CA, Dec. 10, 2010.
121. Gelfand, I., T. Zenone, P. Jasrotia, **J. Chen**, S. Hamiltopn, and P. Robertson. Carbon debt of a CRP grassland converted to bioenenrgy productions. GLBRC Sustainability Retreat: translating science into policy, Kellogg Biological Station, MI, (Poster), Feb 6–8, 2010.
120. Zenone, T., **J. Chen**, M. Deal, J. Xu, S. Hamilton, and P. Robertson. Impact of land use change on carbon balance for new bioenergy crops: GLBRC Sustainability Retreat: translating science into policy, Kellogg Biological Station, MI, Feb 6–8, 2010.
119. John, R., **J. Chen**, T. Zenone, J. Xu, M. Deal, A.K. Bhardwaj, R. Becker, and P. Robertson. Estimation of gross primary production across bioenenrgy crop systems based through high resolution radiometry. GLBRC Sustainability Retreat: translating science into policy, Kellogg Biological Station, MI, (Poster), Feb 6–8, 2010.
118. Deal, M., J. Xu, R. John, P. Jasrotia, K. Kahmark, G.P. Robertson, and **J. Chen**. The allocation of C to above- and below-ground components in three bioenenrgy crops. GLBRC Sustainability Retreat: translating science into policy, Kellogg Biological Station, MI, (Poster), Feb 6–8, 2010.
117. Xiao, J. K.J. Davis, **J. Chen**, M. Reichstein, D.D. Baldocchi, C. Beer, L. Chasmer, J.M. Chen, A.R. Desai, K. Ichii, A. Ito, R. John, M. Jung, T. Kato, W. Knorr, B.E. Law, S. Liu, Y. Luo, M. Mirco, Q. Mu,

K. Naithani, D. Papale, S.W. Running, Y. Ryu, K.M. Schaefer, C.R. Schwalm, G. Sun, H. Tian, E. Tomelleri, C.A. Williams, B. Wylie, W. Yuan, L. Zhang. Advances in Upscaling of Carbon and Water Fluxes from Towers to Regional, Continental and Global Scales. Joint 2011 AmeriFlux Science Meeting and 3rd NACP All Investigators Meeting, New Orleans, LA, (Oral Presentation), January 31 – February 4, 2011.

116. Amiro, B., A. Barr, J. Barr, A. Black, R. Bracho, M. Brown, **J. Chen**, K. Clark, K. Davis, A. Desai, S. Dore, V. Engel, J Fuentes, A. Goldstein, M. Goulden, T. Kolb, M. Lavigne, B.E. Law, H. Margolis, T. Martin, H. McCaughey, M. Montes-Helu, A. Noormets, J. Randerson, G. Starr, J. Xiao. What have we learned from forest tower flux data following disturbance? Joint 2011 AmeriFlux Science Meeting and 3rd NACP All Investigators Meeting, New Orleans, LA, (Oral Presentation), January 31 – February 4, 2011.
115. Noormets, A., S.G. McNulty, J.C. Domec, M. Gavazzi, G. Sun, E. Treasure, G. Miao, S. Zhang, J.S. King, **J. Chen**. Forest carbon balance over its production cycle: the remaining uncertainties. What have we learned from forest tower flux data following disturbance? The Joint 2011 AmeriFlux Science Meeting and 3rd NACP All Investigators Meeting, New Orleans, LA, (Poster), Jan. 31 – Feb. 4, 2011
114. **Chen, J.**, R. John, etc. State of Drylands in East Asia (DEA). The Synthesis Workshop (NASA) on Dryland Ecosystems of East Asia (DEA): State, Changes, Knowledge Gaps, and Future. Kaifeng, China (Oral Presentation), July 18–20, 2011.
113. Zenone, T., **J. Chen**, M. Deal, S. K. Hamilton, and G. P. Robertson. Carbon assimilation and loss in early bioenergy systems: effect of land conversion of permanent grassland and agricultural sites. 3rd Integrated Land Ecosystem-Atmosphere Processes Study (iLEAPS) Science Conference, Garmisch-Partenkirchen, Germany, Sept. 18-23, 2011
112. Zenone, T**., J. Chen**, M. Deal, J. Xu, S. K. Hamilton, and G. P. Robertson. CO_2 fluxes of transitional bioenergy crops: effect of land conversion. Ecological Society of America (ESA) Annual Meeting, Austin, TX, Aug. 7-8, 2012.
111. Zenone T, **J. Chen**, G P. Robertson. Carbon assimilation and loss in early bioenergy systems. The 2011 AGU Fall Meeting, CA, (Poster), Dec. 2011.
110. **Chen, J.** Extreme Heat and Drought Events and Their Impact on Forest Carbon/Water Fluxes at the AmeriFlux Oak Openings. The 2011 AGU Fall Meeting, (Oral Presentation), Dec. 2011.
109. Qi, J., **J. Chen**, P. Shan, X. Pan, Y. Wei, M. Wang, X. Xin. Understanding of Grassland Ecosystems under Climate Change and Economic Development Pressures in the Mongolia Plateau. The 2011 AGU Fall Meeting, (Poster), Dec. 2011.
108. John, R, **J. Chen**, A. Noormets, J. Xu. Modeling GPP in Semi-arid Inner Mongolia using MODIS Imagery and Tower-based Fluxes. The 2011 AGU Fall Meeting, (Poster), Dec. 2011.
107. **Chen, J**. and R Jensen. Carbon stories from MOFEP: gains, losses, and stocks of alternative management. Missouri Natural Resources Conference. Tan-Tar-A Resort, MO, Feb. 1–3, 2012.
106. Ozdogan, M., D. Brown, and **J Chen**. Land Use Change, Hydrology and Climate in Central Asia NASA LULCC Annual Meeting, Rockville, MD, (Oral Presentation), April 3–5, 2012.
105. **Chen, J**., R. John, et al. Climate change, landuse, and ecosystems on Mongolia Plateau. NASA LULCC Annual Meeting. Rockville, MD, (Poster), April 3–5, 2012.
104. Qi, J., **J. Chen**, D. Ojima, F. Du, G. Han, M. Wang, X. Pan, X. Xin. Experiences and Challenges for Climate Adaptation in the Grassland Dominated Inner Mongolia Autonomous Region, China. NASA LULCC Annual Meeting, Rockville, MD, (Poster), April 3–5, 2012.
103. Goetz, S., K. DeBeurs, **J. Chen**, D. Brown, and J. Wang. Modeling Strategies for Adaptation (in the context of climate. NASA LULCC Annual Meeting, Rockville, MD, (Oral Presentation), April 3–5, 2012.
102. **J. Chen**. What Have We Learned from Recent FLUXNET Syntheses on NEE of Carbon, Water, and Energy? The 9th Annual USCCC Meeting. Changsha, Hunan, June 16, 2012.
101. Gelfand, I., T. Zenone, P. Jasrotia, **J. Chen**, S. K. Hamilton, G. P. Robertson. Carbon balance of converting conservation reserve program (CRP) grasslands to agriculture. The 97th Annual ESA Meeting. Portland OR, Aug. 5–10, 2012.
100. Bronson, D, and **J. Chen**. Forest canopy temperature: A comparison between an isotopic approach, and photosynthesis-weighted air temperature. The 97th Annual ESA Meeting. Portland OR, Aug. 5–10, 2012.

99. **Chen, J**. Coupling humans and nature at regional scales. The 97th Annual ESA Meeting. Portland OR, (Oral Presentation), Aug. 5-10, 2012.
98. Ouyang, Z-T., R. Becker, W. Shaver, **J. Chen**, Evaluating the sensitivity of wetlands to climate change with remote sensing techniques. Eco Summit 2012. Columbus, Ohio, (Poster) Sept. 30 – Oct. 5, 2012.
97. **Chen J,** R. John, C. Shao, Z. Ouyang, O. Batkhishig, J. Xiao,W. Yuan, A. Samanta, S. Ganguly, N. Moore· Vegetation response to extreme climate events and grazing on the Mongolian plateau from 2000–2010. 2013 LCLUC Annual Meeting. MD, April 2–4, 2013.
96. Su, YJ Su, **J Chen**, C Shao, W Shen, T Zenone, R John, M Deal, S Hamilton and G P Robertson. The Responses of Soil Respiration to Climate across Biofuel Crops and Land Use Histories. KBS LTER All Scientist Meeting. East Lansing, MI, April 5, 2013.
95. **Chen, J.** The role of woody plants in agro-ecosystems. Invited Lecture for the Department of Forestry, Fishery, and Wildlife, the University of Nebraska - Lincoln, NE, Feb. 1992.
94. **Chen, J.** Forest edges and edge effects: from stands to landscape. Invited Speaker for a Seminar at the University of Nebraska - Lincoln, NE, Feb. 1992.
93. **Chen, J.** Hierarchical changes of vegetation and microclimate across Ozark landscape. School of Natural Resources, the University of Missouri, March 1998.
92. **Chen, J.** Biocomplexity of ecosystems and their processes. The Natural Resources Research Lab (NREL), Ft. Collins, CO, April 2000.
91. **Chen, J.** Ecological implications of microclimate associated with buffered riparian zones. Symposium Speaker at 86th ESA Annual Meeting. Albuquerque, NM, Aug. 1998.
90. **Chen, J.** Conflicts between ecological dogmas and hierarchical theories. Harvard Forest Seminar Series. Harvard University, Oct. 1999.
89. **Chen, J.** Coherent spatial relationships between species distribution and production in an old-growth Douglas-fir forest. Harvard Forest Seminar, Petersham, MA, Jan. 2000.
88. **Chen, J.** Global warming has potentials to cause cooler soils. Ecosystem Science Seminar Series, Marine Biology Lab, Woods Hole, MA, Feb. 2000.
87. **Chen, J.** Variability and complexity in ecosystem science and landscape ecology. Michigan State University, East Lansing, MI, Jan. 2001.
86. **Chen, J.** Carbon studies and higher education. National Science Foundation at Woodruff, WI. Aug. 17, 2002.
85. **Chen, J.** Edge effects and fragmentation in US Forests. The 87th Annual Meeting of ESA Symposium, Tucson, AZ, Aug. 5, 2002.
84. **Chen, J.** Challenges for the Ecological Community in the 21st Century. College of Life Science. Inner Mongolia University, Hohhot, P.R. China, Sept. 7, 2002.
83. **Chen, J.** Landscape fragmentation and edge effects. International Academic Conferences on the Optimum Allocation of Water Resources and the Sustainable Development in Arid Zone. Hohhot, Inner Mongolia, P.R. China, (Oral Presentation) Sept. 9, 2002.
82. **Chen, J.** Fragmentation, edge effects, and carbon credits in disturbed landscapes. College of Life and Environmental Sciences, Nanjing University, Nanjing, P.R. China. Sept. 11, 2002.
81. **Chen, J.** Edge effects in disturbed land mosaics. SPEA Seminar Series, Indiana University, Bloomington, IN, Jan. 30, 2003.
80. **Chen, J.** Linking Ecosystem processes to landscape structure. Weekly Monster Seminar JAMs, Co-Sponsored by the NOAA/NMFS and the University of Washington (http://www.nwfsc.noaa.gov/seminars/). Seattle, WA, Feb. 20, 2003.
79. **Chen, J.** Linking Ecosystem processes to landscape structure. Ecolunch Seminar Series, Department of Biology, Bowling Green State University. Bowling Green, OH, Feb. 25, 2003.
78. **Chen, J.**, K. Brosofske, A. Noormets, et al. Carbon flux in disturbed land mosaics. Chequamegon Ecosystem-Atmosphere Study (ChEAS) 2003 Meeting, Kemp Natural Resources Station, Woodruff, WI, June 29 – July 2, 2003.
77. Noormets, A., **J. Chen**, et al. Carbon fluxes of five ecosystems. Chequamegon Ecosystem-Atmosphere Study (ChEAS) 2003 Meeting, Kemp Natural Resources Station, Woodruff, WI, June 29 – July 2, 2003.
76. **Chen, J.** Fires, management, and ecosystem processes. Korean Forest Service, Seoul, South Korea, Sept. 2, 2003.

75. **Chen, J.** Cumulative carbon flux in disturbed land Mosaics. Fudan University, Shanghai, P.R. China, Sept. 7 (AM), 2003.
74. **Chen, J.** Educational challenges for the ecological community in the 21st century. Shanghai, P.R. China, Sept. 7, (PM), 2003.
73. **Chen, J.** Cumulative carbon flux in disturbed land Mosaics. Beijing Forestry University, Beijing, P.R. China, Sept. 24, 2003.
72. **Chen, J.** Culture, People, and Nature of South Korea and P.R. China. Asian Forum, University of Toledo, OH, Oct. 3, 2003.
71. **Chen, J.** Carbon fluxes of disturbed landscapes. Institute of Applied Ecology, Chinese Academy of Science, Shengyang, P.R. China, Dec. 29, 2003.
70. Chen, J. Ecosystem studies. Inner Mongolia Agricultural University, Huhehot, P.R. China. Dec. 19, 2003.
69. **Chen, J.** Ecology and management of landscapes, IM Agricultural University. 2003.
68. **Chen, J.** Ecology and management of forested landscapes. Ohio University, Athens, OH, March 4, 2004.
67. **Chen, J.** Carbon fluxes in fragmented landscapes. Clusters of Interdisciplinary Research on International Themes (CIRIT) Seminar Series, Ohio State University, Columbus, OH, May 26, 2004.
66. **Chen, J.** Ecology and Management of Landscapes. Wuhan Botanical Garden, Chinese Academy of Science, P.R. China, July 22, 2004.
65. **Chen, J.** The coupled effects of land use and climate change on carbon flux in a forest landscape. Graduate Seminar Series, Dept. of Forestry and Natural Resource, Purdue University, IN, Sept. 28, 2004.
64. **Chen, J.** Climate change, land use, and Nek of managed landscape. Rutgers University, New Brunswick, NJ, Oct. 7, 2004.
63. **Chen, J.**, S. Saunders, K. Brosofske, T. Crow. Linking Ecology to Landscape Hierarchies. The 4th IUFRO8.03 Landscape Ecology Workshop, Tsuguba, Japan, (Keynote Speaker), Oct. 24–29, 2004.
62. **Chen, J.** Forest Carbon Sequestration in Managed Ecosystems. School of Forestry and Environmental Sciences, North Carolina State University, NC, March 14, 2005.
61. **Chen, J.** Carbon fluxes of disturbed landscape in a changing climate. Institute of Atmospheric Physics, Chinese Academy of Sciences, China, July 14, 2005.
60. **Chen, J.** Carbon fluxes and USCCC. Meteorological Bureau of China, Beijing, P.R. China, July 15, 2005.
59. **Chen, J.** Nature's Wonders. The Saturday Science Lectures. June 3, 2006.
58. **Chen, J.** Water and energy fluxes are tightly related to landuse in dominant ecosystems, of the semiarid region of Inner Mongolia. International Conference on Forest and Water in a Changing Environment. Beijing, P.R. China, (Keynote), Aug. 8–10, 2006.
57. **Chen, J.** Ecosystem Level Gas Exchange Measurement Techniques. 2006 Annual Meeting of the Society for Horticultural Science, New Orleans, LA, July 29, 2006.
56. **Chen, J.** Ecology of landscapes and region. Sichuan Academy of Forestry. Aug. 15, 2006.
55. **Chen, J.** Water and carbon fluxes of Inner Mongolia. Inner Mongolia Academy of Forestry. Aug. 3, 2006.
54. **Chen, J.** Ecology of multiple forest ecosystems in time and space. IUFRO 8 Landscape Ecology Conference, Bari, Italy, (Keynote Address), Sept. 26–29, 2006.
53. **Chen, J.** Linking ecology to landscapes. Wuhan Botanical Garden, CAS, June 6, 2007.
52. **Chen, J.** Science of Landscapes. The Graduate University of CAS, Beijing, P.R. China. June 20, 2007.
51. **Chen, J.** Keeping carbon in the terrestrial ecosystems to battle global warming. Invited panelist for the "National Conversation on Climate Actions". City of Toledo, OH, Oct. 4, 2007.
50. **Chen, J.** Developing Research Proposals. In "Applying for Fellowships and Grants: Tips from the Pros". The 23rd IALE Annual Meeting. Madison, WI, April 5, 2008.
49. **Chen, J.** Global climate Change and ecosystem responses. The Graduate University of the Chinese Academy of Sciences, (five lectures), June 16–20, 2008.

48. **Chen, J.** Biogeographic Landscapes of China – Ecology, Culture, Economics, and People. International Conference on Landscape Ecology and Forest Management, Chengdu, P.R. China, Sept. 16–22, 2008.
47. **Chen, J.** et al. CO_2 and H_2O fluxes and multi-resource use at the scale-up plots of the GLBRC. The Great Lakes Regional Biogeochemistry Symposium, Kellogg Biological Station, May 28–29, 2009.
46. **Chen, J.** Interdisciplinary Science is Real, not a Bluff. Institute of Applied Ecology, CAS. July 15, 2009.
45. **Chen, J.** Carbon storage and fluxes in managed forest ecosystems and landscapes. Academia Sinica, Taiwan, Dec. 7, 2009.
44. **Chen, J.** Challenges in ecological education. National Tsungtsin University, Taiwan, Dec. 9, 2009.
43. **Chen, J.** Interdisciplinary Science in changing climate, National University of Taiwan, Dec. 11, 2009.
42. **Chen, J.,** Ranjeet John, Nan Lu, Burkhard Wilske, Changliang Shao, Linhao Li, Lin Zhen, Shiqiang Wan, and others. Changes of Ecosystem and Societies on the Mongolia Plateau: Coupled Regulations of Landuse and Changing Climate. The 2009 Annual AGU Meeting. Dec. 17, 2009.
41. **Chen, J.** Applications of statistical methods in ecological research. Dept. of Math and Statistics, Bowling Green State University, March 26, 2010.
40. Zenone T, Gelfand I, **Chen J,** Hamilton S.K. Robertson G.P Carbon balance during land conversion in early bioenergy systems 20th European Biomass Conference and Exhibition Milan, Italy, June 18–22, 2012.
39. **Chen, J.** Landscape Ecology: An introduction. National Taiwan Normal University. Dec. 3, 2010.
38. **Chen, J.** Net exchange of carbon, water, and energy using EC methods: what have we learned for ecosystem studies? International Symposium on Forest CO2 Flux, Sitou, Taiwan, Dec. 6, 2010.
37. **Chen, J.** Evolution of tower-based flux measurements in ecosystem studies. International Symposium on Forest CO2 Flux, Sitou, Taiwan, Dec. 6, 2010.
36. **Chen, J.** Methods on quantifying ecosystem fluxes. International Symposium on Forest CO_2 Flux, Sitou, Taiwan, Dec. 6, 2010.
35. **Chen, J.** Radio presentation on "Environment" at the WJR Station, Detroit, Michigan, Dec. 21, 2010.
34. **Chen, J.** Interactive Changes of Ecosystems and Societies on the Mongolian Plateau. Conservation Ecology Seminar Series. School of Natural resources, University of Michigan, April 9, 2011.
33. **Chen, J.** Applications of statistical methods in ecological research. Dept. of Mathematics, University of Toledo, April 11, 2011.
32. **Chen, J**. What have we learned in ecosystem science? Department of Environmental Sciences, University of Toledo, Sept. 16, 2011.
31. **Chen, J.** Coupled changes in climate, ecosystems, and societies. Department of Chemistry, University of Toledo, Jan. 18, 2012.
30. Sun, G. X. Feng, J. Xiao, A. Shiklomanov, S. Wang, **J. Chen**. Climate change, land management, and water resources in the Drylands East Asia. The 97th Annual ESA meeting, Portland OR, Aug. 5–10, 2012.
29. **Chen, J**. Eddy-Covariance Method and Net Ecosystem Exchanges of Trace Gases. Institute of Applied Ecology, Shanghai Academy of Environmental Sciences, June 4, 2012.
28. **Chen, J**. Coupled Changes of Ecosystem, Environment and Societies: Lessons from Recent FLUXNET. Institute of Applied Ecology, Shanghai Academy of Environmental Sciences, June 4, 2012
27. **Chen, J**. What have we learned from recent FLUXNET synthesis on ecosystem carbon water, and energy balance? Redbud forum on global change Biology, Tsinghua University, June 29, 2012.
26. **Chen, J.** Landscapes, people, and ecosystem services in a changing world. IUFRO7.01.08 Hydrology Conference, Kahramanmarasm, Turkey, (Keynote Address). Sept. 3-6, 2012.

25. **Chen, J.** Ecosystem Carbon and Water Fluxes in a Changing Climate and Society: What Have We Learned in Ecosystem Studies? Environmental Research Center, West Virginia University, Sept. 13, 2012.
24. **Chen, J.** Ecosystems, People, and Renewable Energy in a Changing World. Environment Agency, Abu Dhabi, UAE, Jan. 21, 2013.
23. **Chen, J**. Smog: A combination of Stable Air and Pollution, Asia Forum, Sponsored by The Asian Studies Institute, University of Toledo, March 22, 2013.
22. **Chen, J.** Harmonizing human and nature for the changing globe. Lake Erie Public lecture, April 18, 2013.
21. Chu, H.S., **Chen, J**, Ouyang, Z., Deal, M., John, R. and Gottgens, J.F. CO_2 and H_2O fluxes in different ecosystems altered uniquely by similar climatic extremes. AGU Fall Meeting 2012, San Francisco, CA (Poster), Dec. 3-7, 2012.
20. Yan, Y**., Chen, J**., Apul, D., Heben, M., Amar, J., Ellingson, R., Jha, R., Podraza, N., Solocha, A., Stepien, C. Earth abundant thin film solar cells as a sustainable energy pathway, NSF Sustainable Energy Pathways Grantee Meeting, Arlington, VA, June 2013.
19. Zenone, T., **Chen, J**., Gelfand, I., Robertson, G.P., Hamiltom S.K. Carbon balances during land conversion in early bioenergy systems. San Francisco, CA, (Poster), Dec. 6, 2012.
18. **Chen, J**., Zutao, O., John, R., Chu, H., Zenone, T., Deal, M., and Gottgens, J. (Climatic Extremes Significantly Alter Carbon Fluxes in Time and Space. B34A-03. Impacts of Extreme Climate Events and Disturbances on Carbon Dynamics II, San Francisco, CA, Dec. 3-7, 2012.
17. Chu, H.S., **Chen, J**, and Gottgens, J.F. Contribution of methane and lateral carbon fluxes in a temperate marsh carbon budget. The 4th Midwest Graduate Research Symposium, Toledo, OH (Oral Presentation), April 20, 2013.
16. John, R., **Chen, J.**, Zutao, O., Batkishig, O., Samanta, A. Ganguly, S., Yuan, W., and Xiao, J. Vegetation response to extreme climate events on the Mongolian plateau from 2000-2010. GC31A-0978. Environmental, Socioeconomic, and Climatic Change in Northern Eurasia and their Feedbacks to the Global Earth System III, San Francisco, California, (Poster), Dec. 3-7, 2012,
15. Chu, H.S., **Chen, J,** and Gottgens, J.F. Contribution of methane and lateral carbon fluxes in a temperate marsh carbon budget. 2013 ESA Meeting, Minneapolis, MN (Oral Presentation), August 4-9, 2013.
14. **Chen, J**. Coupled human and natural systems on Mongolia Plateau: Lessons from the past research. The Sino-German Joint Workshop. The Sustainable Management of Grassland Ecosystems. Hailar, Inner Mongolia, Aug. 18, 2013.
13. **Chen, J.** Coupled human and natural systems on Mongolia Plateau. The Sino-German Joint Workshop. Erguna, Inner Mongolia, Aug. 17, 2013.
12. **Chen, J**. Ecosystem carbon and water fluxes in a changing climate and society. Chinese Academy of Forestry, June 26, 2013.
11. **Chen, J.** What have we learned in ecosystem studies? INGSNRR, June 25, 2013.
10. **Chen, J.** Concepts and applications of coupled human and natural systems. The 7th ISOME and 4th IYEF Conference, June 11, 2013.
9. **Chen, J.** Harmonizing People and Nature on Mongolia Plateau and Elsewhere. Department of Geography, University of Toronto, Canada, Oct. 21, 2013.
8. **Chen, J**. Harmonizing People and Nature on Mongolia Plateau and Elsewhere. Center for Global Change & Earth Observations, Michigan State University, MI, Oct. 24, 2013.
7. Shao, C., **J. Chen**, C. A. Stepien, T. Bridgeman, K. P. Czajkowski, R. Becker, H. Chu, and Z. Yang. Eddy covariance measurement of carbon, latent and sensible heat fluxes from western Lake Erie. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.
6. Abraha, M. G., **J. Chen**, H. Chu, S. K. Hamilton, T. Zenone, R. John, Y. Su, and G. P. Robertson. Evapotranspiration dynamics of biofuel crops with different land use histories. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.
5. Su, Y.J., **J. Chen**, C. Shao, W. Shen, T. Zenone, R. John, M. Deal, S. K. Hamilton, and G.P. Robertson. Response of soil respiration to climate across biofuel crops and land use histories. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.
4. Yang, Z., **J. Chen**, R. Becker, H. Chu, J. Xie, and C. Shao. Disentangling the confounding effects of

PAR and air temperature on net ecosystem exchange in time and scale. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.

3. John, R., **J. Chen**, Z. Yang, J. Xiao, M. Abd Salam M. El Vilaly, A. Samanta, S. Ganguly, O. Batkhishig and G. Zhang. Long term trends in GPP and ET on the Mongolian Plateau in context of climate and land cover/land use change. The 2013 AGU Fall Meeting. San Francisco, CA, (invited speaker), Dec. 9–13, 2013.
2. Wei, C., J. M. Chen, **J. Chen**, J. Yu, C. Cheng, Y. Lai, P. Chiang, C. Hong, C. Chang, T. Wey, M. Tsai, and Y. Wang. Preliminary study on the relationships between aboveground storage and remotely sensed data at Pingdong plain afforestation land in Southern Taiwan. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.
1. Niu, S., Y. Luo, D. Hui, and **J. Chen**. Phenological and physiological mechanisms underlying interannual variability of terrestrial net ecosystem production. The 2013 AGU Fall Meeting. San Francisco, CA, Dec. 9–13, 2013.

RESEARCH GRANTS (Total: >$30 million)

100 **Chen, J**., J. Qi, Yadu Pokhrel , Younsuk Dong, Douglas Hartman, Steven G. Pueppke & Jennifer Wargo. Promoting Collaborations with the Kazakh National University of Water Management and Irrigation, Kazakhstan. SPG_CERES for MSU, $1000, 4/2/2025

99 **Chen, J**., and others. Empowering Michigan Farmers: An AI-Based Forecasting and Management System for Building Resilient Agriculture (AI4AgSys), Agricultural Climate Resiliency Competitive Grants Program, Michigan State, 5/1/2025 – 4/30/2028, **$1,275,000**.

98 Fan, P., R. Briceno, **J. Chen**, and F. Irfan. Environmental Justice & Public Health: Climate, Land, & (Health) Outcome of Dengue Fever (CLOUD), Interdisciplinary Research in Earth Science (IDS), *NASA*; 2024-27; **$1,491,721**

97 Fan, P., **J. Chen**, Atul Jain, Soe Myint, Jianguo Qi. Karren Seto. Decoding Land Transitions across the Urban-Rural Continuums (URC): A Synthesis Study of Patterns, Drivers, and Socio-environmental Impacts in Southeast Asia. NASA LCLUC Synthesis. (8/1/2023 – 7/30/2026), **$1,699,993** (3 years)

95 **Chen**. Sustainable Environmental Performance Team. GLBRC, ~$199,940 (2023), $195,363 + $197,000 + $186,600 (2024), $208,907, total >**$1,200,000** for 5 years

96 Fan, P., K. Briceno and **J. Chen**. 2022-23. Dengue Fever under the Changing Climate and Urbanization in Peru. Vice President for Research and Graduate Studies, Climate Change Research Support Program Seed Grant, Michigan State University, Funded: $50,000

95 Cunningham, Wiilaim, Furqan Irfan, Kenny Briceno, Peilei Fan, and **Jiquan Chen**. Addressing Health and Climate Change Research Through Transdisciplinary Teams (HCCRTT): A Team Building Proposal. MSU-ORI, **$2,500**, 9/2022 – 12/2022

94 Fang, W. and **J, Chen.** Modernizing Curriculum towards the Goals of UN SDGs for Central Asian Universities--Climate Action and Sustainability Development. American Councils for International Education. **$10,000**, 1/1/2022-9/30/2022

93 **Chen, J**., P. Fan, and N. Graham. Advancing Key Curriculums of Ecology and Environmental Sciences for Regional Universities in Kazakhstan & Beyond. American Councils for International Education, **$38,000**, 1/1/2022 – 9/30/2022

92 Kussainova, M., **J. Chen**, and R. John. The Effects of Excessive Water Use and Agricultural Intensification on Aral Sea Shrinkage: SES dynamics within the Syr Darya River Basin. USAID/NAS-PEER, **$158,846,** 6/2021 – 5/2023.

91 Fan, P. and **J. Chen**. COVID-19, Economic Vitality, and Environmental Impact: Global Synthesis & Urban Perspective. College of Social Science, MSU. **$5000**, 5/7/2020

90 **Chen, J**., et al. Development of Key Curriculums for Ecology and Environmental Sciences in Kazakhstan Academic Institutions. American Council. **$20,000**, summer 2020.

89 Celik I and **J. Chen**. PURSUIT: Energy-Water Nexus Analysis of Solar Energy Industry. SESYNC/NSF, 2 years. Need based $

88 **Chen, J**., J Zhao, and R. John. Interdependent dynamics of food, energy and water in Kazakhstan and Mongolia: Connecting LULCC to the transitional socioecological systems. NASA/LCLUC, 3 years, 1/1/20 – 12/31/22, **$890K**

87 Fan, P. and **J. Chen**. Urbanization, economic development, environmental change, and social conditions: A global assessment and regional perspective. **$5000**, SPDC Mini-Grant. Summer 2019.

86 Fan, P**, J. Chen**, Z. Kotval-Karamchandani, and Y. Cui. Human Health and Causes across the Physical-Social Landscapes in Michigan Cities. SPDC Director's Interdisciplinary Research Initiative Fund 1 year, **$12,900**, 1/19-12/30/19

85 **Chen, J**., K. Dahlin, and R. John. Socioecological Carbon Production in Managed Agricultural-Forest Landscapes. NASA Carbon Cycle Science, 1/2016-12/2018, **$975,357**

84 **Chen, J.** and P. Robertson. *Quantify the impact of albedo changes on the energy balance of bioenergy crops, GLBRC, 12/12/17 – 11/30/2018($153553 + $8500 =* ***$162,053****); 12/1/18-11/30/29* ***($*****175,679**), 12/1/19-11/30/20 **($201,338**) , 12/1/20-11/30/21 ($***205,952***), 12/1/21-11/30/22 (**$211,616**). Total = $956,5638

83 **Chen, J.** Natural and Socioeconomic Functions of Urban Greenspaces: European Cities in a Global Context. VISTAS/ESPP, MSU, 10/2015-5/2016, **$4080**

82 **Chen, J.** WaterQube, 2015-2016, **$20,000**

81 **Chen J** and E. Moran. A Team for Coupled Human and Environmental MacroSystems (TeamCHEMS) in a Changing Globe. ESPP, MSU. 1/1/15–12/31/16, **$10,000.**

80 Fan, P.L. and **J. Chen**. Urbanization and Sustainability Under Global Change and Transitional Economies: Synthesis from Southeast, East and North Asia (SENA). LULCC-NASA Step II proposal, 5/1/2015–4/30/2017, **$749,638**.

79 Stepien et al. (Chen-Senior Sci), Undergraduate Research and Mentoring - Using the Lake Erie Sensor Network to Study Land-Lake Ecological Linkages. NSF DBI #1461124.

78. Gelfant, Robertson, **Chen** et al. Study of effect of land-use on soil N_2O emissions using ecosystem level measurements with an open-path N_2O analyzer and static chamber methods. EAGER/NSF, submitted on 8/27/2013, **$130,000**.

77. **Chen, J.** Conservation biology management in urban areas regarding plant species. Visiting Faculty Award (Beyatza Gungor, Turkey). University of Toledo, Summer 2014, **$5,000**.

76. **Chen, J.** and D. Brown. Ecosystems and Societies on Double-Headed Mongolian Plateau. LCLUC/NASA 4/1/14–3/30/2017, **$806,063**.

75. **Chen,** Jones, John, Zhang, and Kinnucan. Ecosystems and Societies of Outer and Inner Mongolia: Divergent Trajectories and Coevolution. CNH/NSF, (submitted 11/20/2012), 9/1/13 – 8/30/18, **$1,364,000.**

74. **Chen, J.** and others. International Center for Ecology, Meteorology, and Environment, NUIST, 1/2013 – present, **$2,400,000** (15,000,000 RMB).

73. **Chen, J**. and R. John. Evaluation of Terrestrial Condition Assessment (TCA) of Restorations for Forest Service Lands. USDA Forest Service, 9/1/12 – 8/31/14, **$20,000**.

72. **Chen, J**. Biophysical Constraints and Resource Use Limitations for Maximizing Biofuel Production. GLBRC/DOE, 12/1/2012 – 11/30/2017, **$829,742**.

71. Yan, **Chen**, Apul, Defne, Heben, and Bigioni. Earth Abundant Thin-Film Solar Cells as a Sustainable Solar Energy Pathway. The Sustainable Energy Program, NSF, 9/1/12 – 8/31/16, **$1,930,067.**

70. **Chen, J.**, K. Czajkowski, R. Becker, and J. Gottgens. Responses of West Lake Erie Basin to Climate Change. NOAA, 6/1/10 – 5/31/12, **$97,900**.

69. Stepiens, **Chen**, Becker, Bridgman, and Czajkowski. FSML: Environmental Sensor System for the Lake Erie Center. NSF, **$350,000**, 2011–2013.

68. Martin, G. **J. Chen**, H. Gottgents, J. Anderson, and J. Kirchhoff. A Path Toward and Environmentally Secure Future through Ecosystem Research and Monitoring. ARI of the National Science Foundation, $**4,130,773.**

67. **Chen, J**. Direct Assessment using Cluster Eddy-Covariance Towers. Great Lakes Bioenergy Research Center. 12/1/2009 – 11/31/2012, $388,000 + 14,283 + $72,000 (equipment match) + Bridging: 9/1 - 11/30/12: **$35,224** (DE-FC02-07ER64494)= **$513,307**.

66. **Chen, J**. Diagnose the Coupled Effects of Climate and Landuse on Regional CO_2, H_2O and Energy. Chinese Natural Science Foundation, **$200,000**.

65. **Chen, J**. Interactive Changes of Ecosystems and Societies on the Mongolian Plateau: From Coupled Regulations of Land Use and Changing Climate to Adaptation. NASA_LULCC, 5/1/2009 – 4/30/2010, **$629,474.**

64. **Chen, J.** Biophysical Constraints and Resource Use Limitations for Maximizing Biofuel Production. GLBRC-DOE, 12/1/2008 – 11/30/2009, $125,277 + $20,000 = **$145,277**.

63. **Chen, J.** Landscape Ecology and Forest Management: Challenges and Solutions. NASA-LCLUC, 3/1/2008 – 12/31/2008, **$20,000**.
62. Moorehead, D., C. Stepein, **J. Chen**, A. Sponberg, P. Lindquist, K. Czajkowski. Integrating Environmental and Public Health of Urban Ecosystems. UT's Program for Excellence. **$50,000**.
61. **Chen, J.** Support for the IUFRO Landscape Ecology Conference. The Northern Global Change Program, **$4,875**, 2008.
60. **Chen, J**. Coupled effects of climate and land use on ecosystem carbon and water cycles. Southern Global Change Program, **$100,016**, 6/1/2007 - 5/31/2008.
59. **Chen, J**. Landscape Ecology and Forest Management: Challenges and Solutions. USDA Forest Service, $20,000+$16,641 = **$36,641**.
58. **Chen, J**. Carbon Flux and Storage in Mixed Oak Forests of MOFEP. 7/1/2007 – 6/30/2011, **$145,321**, Missouri Department of Conservation.
57. Moorhead, Stepien, **Chen**, and others. Integrating environmental and public health of urban ecosystems. Program for Academic Excellence (PAE), University of Toledo. **$15,000**.
56. **Chen, J**. Bridging environmental education and research with institutions in P.R. China. The Kohler International Travel Funds, University of Toledo. **$400**.
55. **Chen, J.** Talent Oversea Ecology team. Institute of Botany, Chinese Academy of Sciences, 1/2005 – 12/2007, **$125,000** (RMB 1,000,000).
54. **Chen, J.** Advance ecological lecture series, Fudan University. 5/2004 - 4/2007, **$281,000** (RMB 2,250,000).
53. **Chen, J.** S. McNulty, A. Noormets, G. Sun, G. Lin, and Y. Wang. Effects of Land Use Change on the Energy and Water Balance of the Semi-Arid Region of Inner Mongolia, P.R. China. NASA, 9/1/2005 - 8/30/2008, $571,837 + $142,606 = **$714,443.**
52. **Chen, J.,** H. Gottgens, et al. Team building and training of a nationally competitive research group at the University of Toledo to participate in the NSF-NEON. University Toledo, **$30,000**.
51. **Chen, J**. Simulating Fire Spread in Eastern Forest Landscapes. Northern Global Change Program, 07/2002 – 12/31/2005, $25,000+$8,854=$**33,854.**
50. **Chen, J**. Research expertise catalog of biological programs. National Park Service and CESU. 14.5 Months, 6/15/2004 - 9/30/2006, ($20,000 + $6,654 = $26,654) + ($10,000 + $2,254 = $12,254) =**$38,908**.
49. **Chen, J**. and A. Noormets. Coupling the effects of management and climate on carbon and water fluxes in the forests of eastern U.S. and P.R.C. Southern Global Change Program and the OBOR Action Fund, Year 1: $251,610 + $180,000 + $241,075 = **$672,685**, Year 2: $165,252 + $110,587 = **$275,839**, Year 3: **$100,068**.
48. **Chen**, Noormets, Sun, Mickler. Coupling the effects of management and climate on carbon and water fluxes in the forests of eastern U.S. and P.R.C. Southern Global Climate Change Program, 9/1/2003 – 5/31/2004, $267,595 + $94,607 **= $362,202**.
47. **Chen** and Zheng. Aboveground biomass estimation using satellite remote sensing in Missouri Ozark Forest: calibration with Russian scientist. USDA Forest Service Southern Station, 4/1 – 8/30/2003, $4260 = **$11,899**.
46. Goldman, **Chen** and Stutzenstein. Development of Spatial Database within a GIS Platform for Environmental Education and Research. UAC, **$4,308**.
45 **Chen**. Global Warming Has Potential To Cool The Temperate Soils. Summer research award and fellowships program, University of Toledo, **$5,000**.
44. **Chen.** Kohler international travel funds, University of Toledo, **$1,000**.
43. **Chen** and Brosofske. REU Supplement 0218097, National Science Foundation, 2001/2002, **$6,000**.
42. **Chen** and Moorhead. Carbon flux and storage in mixed oak forests of the Ozark landscape. 7/2002 – 6/2006, ($119,122 + $99,157 = $218,279) + ($41,565 + $38,087 = $79,652) = **$297,931**.
41. **Chen**, Saunders, Song, Crow, Cleland, and North. Development of spatially-explicit decision tool for fire management at landscape levels. The Joint Fire Science Program, 10/1/2001 – 9/30/2004, $618,742 + $379,309 = **$998,051**.
40. **Chen** and Brosofske. Carbon exchange and cumulative NEP of disturbed land mosaics. National Science Foundation, 9/1/2001 – 8/31/2004, $553,970 + $114,521 = **$668,491**.

39. **Chen.** Projecting changes in carbon stores related to management and forest succession in a regional forest, The Northern Global Climate Change Program and USDA FS NC Station, ~ $70000 + OV = **$99,400**.
38. **Chen.** Adaptive landscape management: a synthesis from the Chequamegon National Forest. Michigan's Research Excellent Funds, 2/1/2001– 1/31/2002, **$35,956**.
37 Perlinger, **Chen**, and Cantrell. Micrometeorological equipment for cross-campus atmospheric science research and teaching, C^2E^2 Grant, 11/30/2000, **$11,715**.
36. **Chen** and Euskirchen. Carbon Sequestering in Managed Forest Landscapes: Application of Mobile Flux Measurement Lab, USDA Forest Service NC Station, 10/1/2000 – 9/30/2001, $30,000 + OH = **$44,100**.
35. Bridgham, Pastor, Roulet, Frolking, **Chen**, and Weltzin. Biocomplexity-incubation Activity on Biocomplexity in Peatlands, National Science Foundation, 10/1/2000 - 9/30/2002, **$99,500.**
34. **Chen**, Jurgensen, Ma. Temporal and Spatial Patterns of Soil Respiration and microclimate and Their Relationships to Disturbances in Teakettle Experimental Forest, 4/1/2000 – 3/30/2001, $30,000 + OH = **$44,100**.
33. Saunders and **Chen.** Sustainability and Management of Ecosystems and Landscape in the Great Lakes Region: Transferring Science to Natural Resource Management. USDA FS NC Station, 8/28/1999 – 8/15/2001, $118,772. + OH = **$174,595**.
32. Saunders and **Chen.** Ecological Synthesis of the Chequamegon National Forest Landscape Project, USDA FS NC Station, 01/27/1999 – 06/30/1999, $25,320 + OH = **$37,220**.
31. **Chen** and Zheng, Physical and Vegetation Responses to Stand and Landscape Structure: a Synthesis, Missouri Department of Conservation, 7/199 – 6/30/2000, $121,000 + OH = **$177,870**.
30 Oelfke, Peterson, **Chen**, and Jurgensen. Determine the Impacts to the Natural Fire Regime Due to Moose Browsing at Isle Royal National Park, Michigan. National Park Service, 7/2000 – 6/2002, **$220,581**.
29. **Chen** and Jurgensen. Ecosystem Responses to Disturbances in Teakettle Experimental Forest, Mcintire-Stennis Funds, 9/1/1998 – 8/30/2000, **$28,000**.
28. Mroz, Reed, **Chen,** Jurgensen. Designing Regeneration Systems for Sustainable Management of Lake States Forest Wetlands, USDA National Res. Initiative (NRI), 10/1997 – 9/2000, **$181,357**.
27. **Chen** and Desanker. Adaptive Landscape Management: Hypothesis, Options, Returns, USDA National Res. Initiative (NRI), 9/1997 – 8/2000, **$228,000**.
26. **Chen.** Carbons and Energy Flow and Plant Community Response to Climate Change in Peatlands, National Science Foundation, 8/1997 – 7/2001, **$1,200,450**.
25. **Chen**, Shaw, and Harmon. Integrated ecosystem studies at the Wind River Canopy Crane Site, Earthwatch and Durfee Foundation, 1998, $9,600 + OH = **$14,112**.
24. **Chen.** Applications of remote sensing data in landscape analysis, RSI of the Research Excellence Fund of Michigan State, 1997/1998, $2,903 + 1998/1999, $23,000 = **$25,903**.
23. **Chen** and Zheng. Species Distribution Across Ozark Landscape, Missouri Department of Conservation, 7/1/1998 – 6/30/1999, $10.000+ OH = **$14,700**.
22. Pregitzer, **Chen**, et al., Collaborative research on below ground ecosystem function. DISPRO of EPA, 83 6/1/1998 – 5/31/2001, $699,783 + others = **$1,400,000**.
21. Saunders and **Chen.** Ecological Synthesis of the Chequamegon National Forest Landscape Project, USDAFS NC Station, 12/21/1998 – 8/21/1999, $25,320 + OH =**$37,220**.
20. **Chen.** CO_2 and H2O Fluxes of Managed Forests in Responding to Global Climate Change, WESTGEC/NIGEC/DOE, 7/1/1997 – 6/30/2000 $150,000 + others = **$450,000**.
19. **Chen**, Halvorsen, Pickens, Mroz, Jurgensen, and Pilant. Integrating Ecological, Economic, and Social Concerns in a Common Landscape, Research Excellence Fund of Michigan State, 12/1/1997 – 11/30/2000, $136,000 + $35,956 supplement funds for 2001 = **$171,956**.
18. **Chen** and Jurgensen. Microclimate and its Relationship to Soil Processes in Teakettle Experimental Forest, USDA Forest Service PSW Station, 4/1998 – 3/2001, $89,454 + OH = **$131,497**.
17. **Chen**, Shaw, and Rudnicki. Integrated Ecosystem Research at the Wind River Canopy Crane Facilities, Carson, Washington. Earthwatch and Durfee Foundation, 1997, **$8,850**.
16. Paw U, **Chen**, and Ustin. Monitoring Sensible Heats, Co_2, and H2O at the Wind River Canopy Crane Site. WESTGEC/NIGEC, 1996-1997, **$234,541**.
15. **Chen**, Paw, and Ustin. Monitoring Forest Microclimate and Forest-atmosphere Exchange of Co_2 and H2O at the Wind River Canopy Crane Site in a Douglas-fir Forest, USDA Forest Service, 6/20/1996 – 12/31/1997, $19,000 + OH = **$27,930**.

14. **Chen**, MTU, and Boyle. A Symposium for "Current and Emerging Ecological and Environmental Issues in Asia" at 81st Annual Meeting in Providence, Rd, Ecological Society of America, 1996, **$1,500**.
13. **Chen.** Micronet Equipment for teaching C^2E^2 Equipment Funds, Michigan Technological University, May 1995, **$3,500**.
12. **Chen.** Earthwatch, Characterizing the 3-dimensional Structure of Spruce-fir Forest Canopies at the Changbaishan Natural Reserve (CNR), 6/1 – 12/31/1996, **$16,000**.
11. Mroz, Reed, **Chen**, and Jurgensen. Wetland Research, Mead Paper, 8/1/1995 – 7/30/1996, **$15,000**.
10. Pregitzer, MaClean, **Chen**, and Reed. Sustainable Management of Forest Landscapes: the Two-hearted Watershed, The Nature Conservancy, Michigan Chapter, 4/1995 – 12/1995, **$2,000**.
9. Mroz, **Chen**, Gale, Jurgensen, and Reed. Sustainable Development of Forested Wetlands: Michigan Tech's Program on the Structure and Function of Wetland Ecosystems. Research Excellent Funds. 1/1/1995 – 12/31/1997, $234,000, Mead Paper, Publishing Division, $15,000/yr since 1995, total = **$279,000**.
8. **Chen**, Bradshaw, and Franklin. Canopy Structure and Microclimate: Description, Modeling, and Responses. USDA Forest Service, Pacific Northwest Experimental Station, New Perspectives Program, 6/1/1994 – 5/31/1998, $42,000 + OH = **$61,740**.
7. **Chen**, Naiman, Franklin, and Harris. Development of an Empirical Model to Predict Temperature and Moisture Gradients Across Managed Stream Ecosystems, Water-land Interactions (PNW), 6/1/1994 – 12/31/1995, $10,000 + OH = **$14,200**.
6. **Chen** and Brookshire. Growing Season Microclimate and Vegetation Responses Across an Oak Forest Landscape of Southeast Missouri Ozarks, U.S.A., Missouri Department of Conservation, 8/1994 – 5/1998, $130,000 + OH = **$191,100**.
5. **Chen** and Crow. Relating Microclimate, Vegetation, and Decomposition to Landscape Patterns on the Chequamegon National Forest, Wisconsin, USDAFS NC Station and Graduate School Training Fellowship, 4/1/1994 – 6/30/1998, $150,470 + OH = **$221,191**.
4. **Chen** and Franklin. Microclimate and Alternative Silviculture, USDA Forest Service, Pacific Northwest Experimental Station, 9/1993 – 12/1995, $30,000 + OH = **$44,100**.
3. **Chen**, Naiman, Franklin, and Harris. Microclimate Associated with Alternative Systems. Water-land Interactions (PNW), 1/1993 – 12/1994, and **$14,130**.
2. **Chen**, Naiman, and Franklin. Microclimatic Pattern within Riparian Systems, USDA Forest Service, Pacific Northwest Experimental Station, Water-land Interaction Program, 1/1993 – 12/1995, **$20,000**.
1. **Chen** and Franklin. New Forestry Microclimate and Vegetation Responses, USDA Forest Service, Pacific Northwest Experimental Station, 1/1992 – 6/1993, **$50,000**.

COLLABORATOR

1. Martin Luther University of Halle-Wittenberg, healthier living space with nature-based therapies (healing nature), HORIZON-CL6-2022-COMMUNITIES-02-two-stage, 998,010.00 € (international collaborator), submitted on 9/6/2022
2. Robertson et al. The KBS LTER Project: Long-term Ecological Research in Row-crop Agriculture. (Senior Scientist). 2014-2020
3. Walton, B. M., D. Beach, J. Mack, T. Schwarz, P. Grewal, Cleveland State University. ULTRA-Ex: Parks and Vacant Lands as Mechanisms of Ecological and Social Stability in the Cleveland Urban Ecosystem. National Science Foundation. 7/4/2009.
4. Aber, John and S. Ollinger, University of New Hampshire. Resolving the Effects of Multiple Environmental Changes on Net Carbon Balances through Time-Series Application of a Forest Ecosystem Model. Southern Global Climate Change Program, Raleigh, NC. 2002.
5. Lipscomb, G.G., B. Benjamin, W. Messer, A. Pinkerton, and K. Czajkowski, University of Toledo. HPNC: University of Toledo Internet 2 Connection. National Science Foundation. 5/2002.
6. Prasad (UM), CCRI: Medium: Collaborative Research: Community Infrastructure for Visual Cloud Computing with Edge Networking to enable Environmental Situational Awareness. NSF, 2/19/2019
7. Trevor Keenan trevorkeenan@berkeley.edu. FLUXNET-AccelNet, NSF, $2,000,000, 1/1/2022-/2026
8. Cromsigt, Joris, et al. Rewilding Landscapes as a Mitigating Tool under Climate Change: assessing the Role of Land Surface Albedo, Global Challenges University Alliance, Sweden, 200,000 Euro, 1/2022- 12/2023 (US Collaborator)

SUBMITTED

1) Sun, Fei. and **Jiquan Chen**. Understanding Climate Hotspots and Cognitive Health Risks Among the Aging Population in Thailand: A Mixed-Methods Study. Climate and Health Research Coordinating Center (CAFÉ), $18,140, 3/31/2025
2) **Chen, J**. and Christine Spunger. Building Foundations: Harnessing Systems Biology of Switchgrass-Microbiome Interactions for Resilient and Sustainable Bioenergy Production. Systems Biology Research to Advance Bioenergy Crop Production, DOE, Subcontract from University of Okalahoma. $193.000, 2/27/2025.
3) **Chen, J.** Emissions of Air Pollutant Gases from Croplands and Animal Feeding Operations in the Midwest US (*FarmFluxmdwst*). NASA FARMFLux, 9/25 – 8/29, $138,866, submitted 3/7/2025
4) Chen, J., Kurt D. Thelen, Jiliang Tang, Christine Charles, Dennis Pennington, Molly Sears, Jeffrey A. Andresen, Sandy Marquart-Pyatt, Empowering Michigan Farmers: An AI-Based Forecasting and Management System for Building Resilient Agriculture (AI4AgSys), Agricultural Climate Resiliency Competitive Grants Program, $1,275,000, 3 years. Submitted on 12//7/2024
5) Jain, Atul, ..J. Chen (MSU PI). Reducing Uncertainties in Land Carbon Budget Through Improving Disturbance Effects, Processes, and Computation. Virtual Institute for the Carbon Cycle (VICC), Schmidt Foundation ($10M, 5 years) (4/10/2024 for pre-proposal)
6) Liao, W., D. Hartman, **J. Chen**. Enhancing Renewable Energy Research and Development Capacities at Universities in Kazakhstan. Wellcome Foundation, $25,000 for 1 years, 10/14/2024, declined

TEACHING:

Michigan State University, East Lansing, MI

- GEO874-001: Climatic Change, Impacts, and Biophysical Modeling (3 credits, 2020F)
- GEO827: Guest lecture: applications of RS in ecosystem studies (2 hrs, 12/27/17)
- GEO874: Geography Seminar: Fluxes and GIS (4 credits, 2018S)
- GEO892: Environmental Biophysical Measurements and Instrumentation (3 credits, 2017F)
- GEO892: Biophysical Models in Ecosystem Studies (3 credits, 2024S)
- GEO827: Digital Image Processing and Analysis (4 credits, 2015F), W/ Qi
- GEO873: Human-Environment, (3 Credits, 2016S), W/ Moran
- GEO892: Environmental Instrumentation (3 credits, 2017F)
- GEO886: Research Design in Geography (3 credits, 2018S)
- PLB 441: Guest lecture: water and energy budget in terrestrial ecosystems, Plant Ecology (10/30/14)
- Global Change, KazNAU Summer school lecture (6/82020)

University of Toledo, Toledo, OH

- Guest lecture: water and energy budget in terrestrial ecosystems, PLB 441 Plant Ecology (10/30/14)
- Guest lecture: water management short course (Dr. Shi) (9/10/2014)
- EEES 6980/MATH 5780: Global Change Ecology (2013 S, 3 credits)
- EEES 6980/MATH 5780: Joint Seminar in Mathematical and Environmental/Biological Sciences (2012, 3 credits)
- EEES 6930/9030: Graduate Orientations (2007 – 2014, 1 credit)
- EEES 4750: Conservation Biology (2002 – 2014, 3 credits)
- EEES 5750: Advanced Conservation Biology (2002, 2004, 4 credits)
- EEES 6980-025: Current Issues in Eco- and Geo-Sciences (2002S, 2 credits)
- EEES4760/6760: Landscape Ecology (2003S, 2005S, 4 credits)
- EEES6660/8660: Biophysical Processes of Ecosystems (2002F, 3 credits)
- EEES 6960: Master's Thesis Research (2001 – 2014, variable credits)
- EEES 8960: Doctoral Dissertation Research (2001 –2014, variable credits)
- Field Ecology Lectures: Community and Ecosystem at Ohio Wesleyan Univ. (2007, 2008)

Michigan Technological University, Houghton, MI

- FW3020: Forest and Landscape Ecology (2000 – 2001, 3 credits)
- FW5411: Analysis of Ecological Data II (2000 – 2001, 3 credits)
- FW5430: Advanced Landscape Ecology (2000 – 2001, 3 credits)
- FW5090: Biophysics and Ecosystem Processes (2000 – 2001, 3 credits)
- FW210: Forest Ecology, Michigan Technological University (1993F, 4 credits)
- FW221: Applications in Forestry Sciences, (1994F – 1995F, 2 credits)
- FW414: Ecological Modeling, (1997 – 1998)
- FW443: Landscape Ecology (winter, 1994 – 1998, 3 credits)
- FW543: Advanced Landscape Ecology (1994F – 2001F, 4 credits)
- FW509: Forest Microclimate and Measurements (1995S and 1997S, 3 credits)
- FW551A: Quantitative Methods for Spatial Data (1993F, 2 credits)
- FW551A: Computational Techniques for Spatial Data in Ecology (1994F, 2 credits)
- FW483: Integrated Forest Resource Management III (1995 – 1996)
- FW105: Introduction to Forestry and Wood Science (Guest lecture) (1994F, 1995F, 1998F)
- FW600: Doctoral Research in Forestry (1994 - 2001)
- FW500: Graduate Research in Forestry (1993 - 2001)
- FW482: Integrated Forest Resource Management II (Guest lecture) (1995S, 1996S)
- FW442: Wetland Ecology (Guest lecture) (1994S, 1995S, 1996S, 1997S)

Harvard University, Cambridge, MA

- LA5515: Landscape Ecology and Design (Guest lectures) (2000)

University of Washington, Seattle, WA

- FR443: Landscape Ecology, teaching assistant (1992, 4 credits)

Eastern China Normal University

- Biophysical Modelsing (3-6 pm; Nov. 14-19, 2021), 536 students

Martin Luther University

- SES Seminars: 2 guest lectures (11/25/21 and 11/4/2021)
- Scientific writings: 2 guest lectures (11/29/2021, 12/6/2021)

Graduate Students Advised - Thesis & Current Position

1. **Shirkey, Gabriela**. 2023. Spatiotemporal changes in carbon and anthropogenic contributions in an agricultural-forest watershed. Ph.D., Michigan State University. Grand Challenge Initiative Postdoctoral Fellow at Chapman University
2. **Sciusco, Pietro**. 2023. Global Warming Impacts of Landscape Mosaic in Southwestern Michigan: A Cross-Scale Assessment of Climate Regulations of Albedo and Net Ecosystem Exchange. Ph.D., Michigan State University. Currently A Research Scientist at the Planeteck, Italy.
3. **Lei, Cheyenne India**. 2022. The Analysis of Albedo on Bioenergy Crops: Assessment for Climate and Global Warming Impact. Ph.D., Michigan State University. Currently A Research Fellow at the University of Michigan.
4. **Park, Hogeun**, 2018. Urban Transformation in Transitional Economies: Lessons from the Mongolian Plateau. Ph.D., Michigan State University. Currently a Specialist at the Wrold Bank, Washington, D.C.
5. **Su, Yahn-Jauh**. 2017. The carbon sequestration and soil respiration after land use conversion in biofuel cropping ecosystems. Ph.D., Michigan State University. Currently a Research Associate at KBS.
6. ***Wu, Susie R.*** 2016. Green buildings and green users: an assessment of using green building environments to communicate sustainability to users. Ph.D., Michigan State University. Currently a Postdoc at CGCEO.
7. ***Zhu, Liuyan***. 2016. The influence of urban landscape structure on the spatiotemporal changes of PM2.5. M.S. Thesis, NUIST. Currently a Donghai navigation Safety Admin.

8. ***Ouyang, Zutao***. 2015. Global Change and Ecosystem Characteristics: spatial/Temporal Variations and Key Climate/Biological Drivers of NEE and WSA in Three Distinct Ecosystems in the United States. Ph.D., currently an Assistant Professor at Auburn University.
9. ***Fan, Jiazhi***, Parameter optimization for improving poplar plantation simulation based on the measurement and modeling of stomatal behavior. IceMe-NUIST, 2015. (Co-Chair w/ Dan Wang).
10. ***Chu, Hosen.*** 2014. Response and Biophysical Regulation of Carbon Fluxes to Climate Variability and Anomaly in Contrasting Ecosystems. Ph.D. Currently a research Scientist at Lawrence National Lab.
11. ***Han, Juanjuan.*** 2014. Alterations of Grazing and Precipitation on Ecosystem Carbon, Water Cycling and Phenology in a *Stipa breviflora* Desert Steppe. Currently an Assistant professor at Southwest University, China.
12. ***Xie, Jing***. 2012. The 7-year Variability of Carbon and Water Fluxes of an Oak-Dominated Forest in the USA**.** Ph.D. Currently a Research Scientist at Beijing Municipal Bureau of Landscape and Forestry.
13. ***Deal, Mike W***. 2011. Net Primary Production in Three Bioenergy Crop Systems Following Land Conversion. M.S. Thesis. Currently a Research Manager at Ohio EPA.
14. ***John, Ranjeet***. 2011. Effects of LCLUC on Ecosystem Functions in Semiarid Inner Mongolia. Ph.D., Currently an Assistant Professor at the University of South Dakoda.
15. ***Gong, Chongfeng***. 2009. The Spatial-Temporal Characteristics of Urban Vegetation in Shenzhen. Ph.D. Thesis, Sun Yat-Sen University.
16. ***Lu, Nan*****.** 2009. Regional Climate Change and Vegetation–Water Relations in Inner Mongolia Lessons Learned within the NASA Project "Effects of Land Use Change on the Energy and Water Balance of the Semi-Arid Region of Inner Mongolia, China". Ph.D. Currently an Associate Professor at the Chinese Academy of Sciences.
17. ***Schaefer, Jessica N***. 2009. The Effects of Inter-Annual Climate Variability on Butterfly Communities in a Heterogeneous Landscape of the Oak Openings Region, Northwest Ohio. M.S. Thesis.
18. ***Xu, Jianye***. 2009. Interannual Dynamics of Soil Respiration in Managed Oak Forests in Missouri Ozarks. M.S. Thesis.
19. ***Shao, Changliang***. 2008. Energy Balance of Three Typical Communities along Temperature Gradients in Inner Mongolia Steppe. Ph.D. Thesis, Institute of Botany, Chinese Academy of Sciences. Currently a Professor at the Chinese Academy of Agricultural Sciences, Beijing.
20. ***Henderson, Rachel***. 2007. Soil Effluxes of Vertical Profiles at MOFEP Experiments. M.S. Thesis, University of Toledo. Currently a Research Associate at the Rocky Mountain Ecology Lab.
21. ***Tenney, Gwendolyn H***. 2007. Quantifying the Effects of Prescribed Burning on Soil Carbon Efflux in an Ohio Oak Woodland. M.S. Thesis.
22. ***Zhang, Wenli***. 2007. Carbon Fluxes of Typical Steppe and Cropland Ecosystems in the Agri-Pasture Transition Region of Inner Mongolia, P.R. China. Ph.D. Thesis, Institute of Botany, Chinese Academy of Sciences. Currently an Associate Professor of the Three Gorges University.
23. ***LaCroix, Jacob Joseph***. 2006. Interactions between Fire and Landscape Structure: Applications of the FARSITE Model. Ph.D. Thesis, University of Toledo. Currently a Research Fisheries Biologist at NOAA.
24. ***Li, Qinglin***. 2006. Carbon Storage and Fluxes in a Managed Oak Forest Landscape. Ph.D. Thesis, University of Toledo. Currently Research Scientist of Canadian Forest Service.
25. ***Concilio, Amy L***. 2005. Interannual Variability in Soil Respiration and Response to Experimental Burning and Thinning in an Old Growth Mixed-Conifer Forest. M.S. Thesis, University of Toledo. Currently an Assistant Professor at St Edward's University.
26. ***Ryu, Soung-Ryoul***. 2005. Effect of Disturbances on Fuel Loading, Fire Spread, and Interactions in Managed Forest Landscapes. Ph.D. Thesis, University of Toledo. Currently an Assistant Professor at University of Alberta.
27. ***Bresee, Mary K***. 2004. Photosynthetic Characteristics of Dominant Tree Species in Two Climatically Different Landscapes. M.S. Thesis, University of Toledo. Currently an Ecologist at USDA FS.
28. ***Le Moine, James Michael***. 2004. Soil Respiration across Chronosequences of Three Dominant Forest Ecosystems in Northern Wisconsin, USA. M.S. Thesis, University of Toledo. Currently a Research Technician and Arizona State University (with Andrew Richardson).
29. ***Rademacher, John A***. 2004. Forest Structure and Carbon Allocation Within and Between Two Northern-Mixed Hardwood Edges. M.S. Thesis, University of Toledo. Currently a Range Conservationist at the Humboldt-Lioyable National Forest, Nevada.
30. ***Ma, Siyan***. 2003. Interactions between Microclimate, Soil Respiration, and Disturbances in a Forest

Ecosystem: Lessons from the Teakettle Experimental Forest. Ph.D. Thesis, University of Toledo. Currently a Postdoctoral Research Associate in University of California – Berkeley (Dennis Baldocchi).

31. ***Euskirchen, Eugenie S***. 2003. Carbon Fluxes in Managed Forest Landscapes: An Empirical and Model-Based Approach. Ph.D. Thesis, Michigan Technological University. Currently an Associate Professor at the University of Alaska.
32. ***Gerdes, Lynden B***. 2001. A Contribution to the Flora of the Rove Slate Bedrock Complex Landtype Association, Northern Cook County, MN, USA. MS thesis, Currently a Botanist for Minnesota DNR (Co-Chair with M. Gale).
33. ***Jaiteh, Malanding***. 2000. The Dynamics of Human-Induced Land Cover Changed in Miombo Ecosystems of Southern Africa. Ph.D. Thesis. Michigan Technological University. Currently a Research Professor at Columbia University, NY.
34. ***Watkins, Radley***. 2000. Road effects on understory vascular plants in a managed forest landscape. M.S. Thesis, Michigan Technological University. Project manager for bear monitoring at the Glacier National Park, MT.
35. ***Brosofske, Kimberley Dawn***. 1999. Relationships between understory vegetation and landscape structure across multiple spatial scales in northern Wisconsin. Ph.D. Thesis. Michigan Technological University.
36. ***Wanggsenthorn, Surachit***. 1999. Genetic diversity in isolated bird populations following recent rain forest fragmentation. MS thesis, Michigan Technological University.
37. ***Rudnicki, Mark***. 1998. Relations of climate and radial increment of western hemlock (*Tsuga heterophylla*) in an old-growth Douglas-fir forest in southern Washington. MS thesis, Michigan Technological University. Currently a Professor at Michigan Technological University.
38. ***Saunders, Sari C.*** 1998. Multiscale relationships between landscape structure and function in a managed forest. Ph.D. Thesis. Michigan Technological University. Currently a Research Ecologist, Coast Forest Region, BC Ministry of Forests and Range, Canada
39. ***Song, Bo.*** 1998. Three-dimensional forest canopies and their spatial relationships to understory vegetation. Ph.D. Thesis. Michigan Technological Univ. Currently an Associate Professor at Clemson Univ.
40. ***Brosofske, Kimberley Dawn***. 1996. Effects of harvesting on microclimate from small streams to uplands in western Washington. MS thesis, Michigan Technological University.
41. ***Silbernagel, Janet.*** 1996. Dialectical sequences between culture and landscape ecological approach. Ph.D. Thesis. Michigan Technological University. Currently a Professor at the University of Wisconsin, Madison.

Others:

1. ***Fan, Angel, 2013-2015***, incomplete
2. ***Marshall, Treneice***. 1999-2001. Contributions of Wetland Ecotones to the Overall Species Diversity of a Northern Wisconsin Landscape. MS thesis, Michigan Technological University.
3. ***Xu, Ming***. 1994-1996. Microclimate and Plant Diversity in Missouri Ozarks. Ph.D. Transferred to UC Berkley. Currently an Associate Professor at Rutgers University.

SERVICE ON UNIVERSITY COMMITTEES

Graduate Committees:

1) Post-doctoral Research Associate Advisor
   - Dr. Gang Dong (6/2023 -)
   - Dr. Jing Yuan (7/2020 – 7/2022)
   - Dr. David Reed (9/2017 – 8/2020), MSU
   - Dr. Zutao Ouyang (1/2018 – 7/2019), MSU
   - Dr. Fei Li (2/2017 – 8/2019), MSU
   - Dr. Susie R. Wu (9/2016 – 2019), MSU
   - Dr. Michael Abraha (2013 – Present), UT & MSU
   - Dr. Changliang Shao (2012 – 2017), UT & MSU
   - Dr. Ranjeet John (1/2011 – 2018), UT & MSU
   - Dr. Mike Deal (6/2011 – 10/2012), UT
   - Dr. Terenzio Zenone (2/2009 – 12/2013), UT

Dr. Burkhard Wilske (1/2007 – 4/2010), UT
Dr. Karrin Alstad (5/2007 – 8/2009), UT
Dr. Jared Deforest (6/2004 – 8/2006), UT
Dr. Xiaoli Cheng (10/2005 – 6/2006), UT
Dr. Asko Noormets (9/2001 – 11/2006), UT
Dr. Daolan Zheng (5/1998 – 5/1999, 10/2002 - 4/2006), MTU & UT
Dr. Siyan Ma (8/2003 – 4/2004), UT
Dr. Xinli Wang (4/1998 – 3/2000), MTU
Dr. Sari Saunders (5/1998 – 8/2001), MTU
Dr. Kim Brosofske (4/1999 – 8/2000), MTU
Dr. Malanding Jaiteh (3/2000 – 8/2000), MTU

2) Current Ph.D. Students, Chair
Cheyenne Lei (8/2016 – 8/2022), MSU
Gabriela Shirkey (8/2017 – 5/2023), MSU
Pietro Sciusco (1/2018 – 5/2023), MSU

3) Current M.S. Students, Chair
None

4) Doctoral Committee Member, excluding above
Xiuming Cai, Geography, MSU (2023 – present)
Kevin Postma (8/2023 -), Department of Entomology, MSU
Sakshi Saraf (4/2023- present), University of South Dakota
Venkatesh Kolluru (8/2022- present), University of South Dakota
Yousef Khajavigodellou (7/2022 -) - MSU
Tanni Sarker (5/21 – 5/2024) - MSU
Rui Zhang (1/2020 -) - MSU
Md. Tajminur Rahman (1/2019 – 4/30/19), MSU
Jay Devkota (9/2012 –8/2014), Civil Engineering, UT
Surachit Wanggsenthorn (9/2000 – 2001), MTU
Jing Xie (9/2009 – 5/2012), Beijing Forestry University
Chenlei Huang (8/2010 – 12/2011), Business, UT
Jiangye Xu (8/2009 – 12/2011, transferred), UT
Haiqiang Guo (8/2004 – 7/2010), Fudan University/UT
Nan Lu (8/2005 – 8/2009), UT
Michael Benedict, Ph.D. (5/2002 – 8/2009), UT
Haixia Miao (9/2005 – 7/2008), Ph.D., Institute of Botany, Chinese Academy of Sciences
Changliang Shao (9/2005 – 7/2008), Ph.D., Institute of Botany, Chinese Academy of Sciences
Long Wei (10/2004 – 7/2008), Institute of Botany, Chinese Academy of Sciences
Ran Jing (8/2006 – 5/2007), UT
Yafeng, Bao (8/2005 – 6/2007), Ph.D., Institute of Botany, Chinese Academy of Sciences
Wenli Zhang (10/2004 – 6/2007), Institute of Botany, Chinese Academy of Sciences
Wen Cao (9/2005 – 12/2006), Ph.D., NC State University
Yunjiang Gu (9/2004 – 6/2006), Fudan University (Co-Chair)
Ilona Ilniczki (1/2004 – 8/2004), Incomplete, UT
Tim Walters, Ph.D. (3/2003 – 5/2004), UT
Steve Mather (5/2002 – 4/2004), Incomplete, University of Toledo
Li Wu (9/2002 – 5/2003), Incomplete, UT
Charlie Goebel (8/1997 – 5/2001), MTU
Treneice Marshall (6/1999 – 8/2001), Incomplete, MTU
John Vucetich (1/1997 – 8/1999), MTU
Hilary Alexis Londo (6/1997– 6/1999), Incomplete, MTU
Quanfa Zhang (9/1995 – 5/1998), MTU
Alain Briot (4/1995 – 5/1997), Incomplete, MTU

Conghe Song (9/1995 – 12/1997), Incomplete, MTU
Eric Heitzman (1/1995 – 8/1997), MTU
Jingkun Zhang, Ph.D. (11/1995 – 12/1995), MTU
Guang Zhao, Ph.D. (9/1993 – 7/1994), MTU

5) M.S. Committee Members, exclusive of above

Abhinav Chandel (9/2024 -), USD
Htin Paw Pyae (3/2024 -), Forestry, MSU
Tabitha Adinorkwor Alimo (3/2024 -), Forestry, MSU
Angela Fan (5/2013 – 5/2018), MSU
Kimberly Panozzo (1/2013 – 5/2014), UT
Heather M. Thoman (8/2012 – 7/2014), UT
Catherine Buchanan (11/2008 – 5/2010), UT
Rachel Henderson (8/2005 – 5/2007), UT
Gwen Tenney (5/2004 – 5/2007), UT
Anne Sterns (8/2003 – 12/2006), UT
Kris Barnswell (9/2003 – 8/2005), UT
Xiaoshu Tang (1/2005 – 8/2005), Incomplete, UT
Stanislav Nikolov (8/2005 – 12/2005), UT
Jim Le Moines (9/2001 – 12/2004), UT
Steve Mather (5/2004 – 9/2004), Incomplete, UT
Kaushik Mysorekar (9/2001 – 5/2004), UT
Bill Boelma (10/1995 – 7/2001), MTU
Evan Kane (6/2000 – 5/2001), MTU
Melinda Mosser (9/1996 – 5/1998), MTU
Leslie Anne Jagger (9/1996 – 10/1997), MTU
Christopher Nicolson (9/1995 – 5/1997), MTU
Bradley A. Young (11/1994 – 12/1995), MTU
Mary Jenkins (3/1994 – 3/1996), MTU
Christian Ovanic (2/1995 – 12/1995), MTU
Zhang Huayong (8/1994 – 7/1996), Beijing Normal University, P.R. China
Xiaoqing Huang (9/1993 – 5/1994), MTU

Other Committee and Administrative Service (MTU, UT, MSU):

1. Committees

- Advisory Council Member, Asian Studies Center, MSU (2024/9 -)
- Research and Innovation Faculty Advisory Committee, MSU (2/24 – present)
- Member, Strategic Plan Working Group - Discovery, Creativity and Innovation for Excellence and Global Impact, MSU, 3/2022 –
- Member, Research Committee, College of Scicial Science (1/2023 -)
- Member, Budget Committee, College of Scicial Science (8/2023 -)
- Member, EEB seed Grant Committee, MSU (2020-2021)
- Member, College Promotion and Tenure Committee (2019-2023), Coll of Soc Sci, MSU
- Member, Graduate Admissions Committee, DGESS, 2019-2020, 2023-2025
- Chair, CGCEO Director's Review Committee (July-Aug 2018)
- Member, SPG Reviewer (4), 10/11/16-2018), MSU
- Member, Steering Committee of the FLUXNET (3/2007 – present), UT
- Member, Graduate Program Review Committee (2/2010 – 8/2014), UT
- University of Toledo's NEON Initiatives, Chair (8/2005 – 8/2014)
- Member, Search Committee for CNSM "Unix IT" Position (2012, 2011), UT
- Member, Search Committee for DES "Global Change" Position (2012, 2011), UT

- Member, Univ. Strategic Planning Committee, Co-Chair for Topic 3 (10/2009 – 3/2012), UT
- Member, UT Self Study for Accreditation (9/3/2009 – 3/2012), UT
- Chair, Mentors Committee, DES (9/2008 – 2011), UT
- Member, Merit Evaluation Committee, DES (9/2008 – 2011), UT
- Member, Advisory Committee for GBI (12/2008 – 2010), UT
- Chair, Association of Chinese Faculty and Staff (12/2008 – 2009), UT
- Member, Toledo-Lucas Country China Task Force (3/2007 – 2009), Toledo, OH
- Member, NIST Proposal for UT's Science Facility (2009, 2008)
- Member, Outstanding Research Reviewing Committee (Spring, 2009, 2007), UT
- Member, Sigma Xi Research Award Committee (2009, 2006, 2005), UT Chapter
- Member, Ohio Scholarship Program (Summer, 2008)
- University Faculty Senate (8/19/2006 – 8/18/2008), UT
- Member, STEM2 — Liberal Arts Implementation Working Group (3/2007), UT
- Outstanding Research Award Committee, member (2007), UT
- Seminar Committee, Chair, EEES (1/2004 – 2005), UT
- Search Committee, Member, Watershed Ecologist (8/2004 – 3/2005), UT
- UT Energy Strategy Task Force to Representative Marcy Kaptur (9/2004 – 2/2005)
- Chair, Computer Committee, EEES (10/2002 – 2004), UT
- Member, Strategic Planning Committee (RJY) (5/2003 – 5/2004), UT
- Member, Search Committee for 2 plant ecologists, EEES (5/2002 – 3/2003), UT
- Member, Search Committee for database manager at LEC, EEES (10/2002 – 05/2002), UT
- Member, Search Committee for Geoscientist, EEES (10/2001 – 2/2002), UT
- Member of the test group for the Vision Funds (6/2001), MTU
- Multi-disciplinary Sigma Xi student Research Colloquium Judge (2001, 1997, 1994), MTU
- Assessment Committee (9/2000 – 8/2001), MTU
- Continuous Improvement of Academic Advising (8/1998 – 8/2001), MTU
- Scholarship Committee (1994 – 8/2001), MTU
- Member, "Leadership Program" (Spring, 1996), MTU
- MTU Initiative for the Environment (1/1995), MTU

2) Other Committees

- Tenure and Promotion Committee, Chair in 2000, MTU (8/1998 – 5/2001)
- Representative of Ecological Society of America (ESA) to IUFRO – Strategic Planning Subcommittee (2011 – 2014)
- Board Member, The Chinese School, Toledo, OH (10/2009 – 9/2012)
- Member, Asian Services in Action (ASIA) Scholarship Committee, OH (1/2009 – 12/2010)
- Member, Scientific Committee, IUFRO Landscape Ecology Working Group International Conference, Bragança, Portugal (11/2008 – 10/2010)
- Member, Scientific Committee, International Conference on Forests and Water, Raleigh, NC (1/2009 – 9/2009)
- Symposium Organizer, EcoSummit, Beijing, P.R. China (2007)
- Member, Organization Committee for the 2006 IUFRO Workshop, Italy (9/23 – 9/26/2006)
- Judge, Northwest Ohio District Science Day, Toledo, Ohio (3/18/2006),
- Member, Organization Committee for the 2004 IUFRO Workshop, Japan (10/2003 – 10/2004)
- Member, Organization Committee for the 2005 International Carbon Symposium, P.R. China (6/2004 – 7/2004)
- Member, Organization Committee for the 4th IALE-China Meeting, Beijing, P.R. China (5/2003 – 12/2003)
- Ford Forestry Management and Research Committee, MTU (9/1997 – 5/2001)
- Scholarship Committee, Chair, MTU (6/1995 – 7/2001)
- Member, Search Committee for the Dean, SFWP, MTU (9/2000 – 5/2001)
- Chair, Assessment Plan for the SFWP Committee, MTU (Spring, 1996)

- Member, Search Committee for the System Administrator for SFWP, MTU (Spring 1996)
- Chair, Computer Committee, Chair 1996, MTU (9/1994 – 1996)
- Curriculum Committee, Chair in 1996, MTU (9/1993 – 1996)
- "Applied Ecology and Environmental Studies" Program, MTU (1995)
- Initial Search Committee for Wildlife Ecology Position, MTU (1994)

3) Other Service

- Judge, WOH NSDA National Qualifier (Speech and Debate) (2/18/17)
- Session Co-Chair (J. Chen and M. Kappas): Landscape dynamics across the drylands of Eurasia: People, societies and Ecosystem, 3rd Open Sci. Meeting, GLP (10/27/2016)
- Judge, OHSSL, Notre Dame Academy (11/21/15)
- Co-Organizer (Lafortezza & Chen), Human and Ecosystem response to Global Change, Ostuni, Italy (10/16 – 10/18/2014)
- Webmaster, Ecological Society of America (ESA), (*http://research.eeescience.utoledo.edu/lees/IUFRO/*) (5/2000 – 4/2013)
- Member, Scientific Committee for the "Regional Forest Responses to Environmental Change" A Traveling Workshop in Massachusetts, New Hampshire and New York, US (7/2005 – 10/2006)
- Session Chair, 3rd IUFRO Landscape Ecology Workshop, St. Marie, CA (5/11/2002)
- Sub-committee Chair, Global Climate Change White Paper (10/2001 – 12/2002)
- Leader, SCB Delegation to P.R., China (9/28 – 10/4/2000)
- Chair, International Relationship Committee, ESA (1996 – 1999)
- Board of Directorates and editorial board for the Sino-Eco Newsletter (1990 – 1994)
- Chair, Faculty Advisor for MTU Chapter (1997 – 1998)
- Chair, Asian Ecology Section (1995 – 1996)
- Member, International Relationships Committee, Chinese Ecologists Overseas (1993 – 1996)
- Session Chair, 2nd IUFRO Landscape Ecology Workshop, Corvallis, Oregon (5/1996)
- Reviewer for ESA's the Buell/Braun Awards: 20 applications (6/5/2015)
- Student Award Judge (1993), Society for Conservation Biology (SCB) (1993)
- Judge, Student poster at AGU 2019
- Faculty Expert and Judge: the 2022 World Food Prize, Michigan Youth Institute, 5/12/2022

REVIEWER FOR ACADEMIC AND PROFESSIONAL PUBLICATIONS

1) Professional Journals

- *Achieves of Environmental Contamination Toxicology* (AECT): 1/3/2010
- *Acta Ecologica Sinica*: 10/14/2009
- *Acta Oecologia*: 11/2/2004
- *Advances in Atmospheric Sciences*: 1/23/2009, 3/25/2013
- Agriculture, Ecosystems and Environment: 4/9/2024
- Agricultural Water Management: 09/0620
- *Agricultural and Forest Meteorology*: 4/2000, 7/26/2000, 10/3/2001, 4/24/2002, 8/31/2007, 9/4/2007, 9/12/2007, 10/1/2007, 12/12/2007, 1/25/2008, 2/16/2009, 4/10/2009, 6/15/2009, 10/16/2009, 11/19/2009, 1/4/2010, 1/18/2010, 3/11/2010, 4/9/2010, 7/7/2010, 7/8/2010, 8/8/2010, 10/5/2010, 12/28/2010, 1/26/2011, 3/14/2011, 8/9/2011, 8/9/11, 8/9/2011, 11/2/2011, 11/20/2011, 1/19/2012, 3/12/2012, 4/12/2012, 5/24/2012, 7/8/2012, 9/25/2012, 10/29/2012, 1/24/2013, 2/12/2013, 3/25/2013, 5/30/2013, 7/9/2013, 9/7/2013, 10/8/2013, 1/21/2014, 4/21/2014, 4/22/2014, 6/30/14, 7/1/14, 4/6/15, 8/16/15, 12/12/15, 1/25/16, 5/2/2016, 8/12/2016, 9/26/2016, 11/16/2016, 3/20/2017, 6/29/17, 7/21/17, 8/29/17, 8/30/17, 10/6/17, 11/3/17, 1/15/2018, 2/6/2018, 4/25/2018, 8/6/18, 8/6/18, 8/6/18, 9/24/18, 9/25/18, 9/26/18, 9/27/18, 11/13/18, 12/30/2018, 2/26/19, 6/6/2019, 9/30/19, 10/12/19, 11/10/19, 12/19/19, 12/19/19 (2), 1/22/2020, 3/9/2020, 3/18/20, 4/26/20, 4/26/20, 5/2/20, 7/29/20, 12/9/20, 1/26/22, 5/11/22, 11/14/22, 5/16/23, 9/11/23, 10/9/2023, 2/25/24, 8/1/24, 8/1/24,
- *American Midland Naturalist*: 11/1995
- *Applied Geography*: 2/6/2018

- *Applied Vegetation Science*: 12/10/2007
- *Arctic, Antarctic, and Alpine Research*: 10/25/2003
- Atmosphere: 9/2/21,
- *BioScience*: 2/24/2003, 11/3/2017
- *Bulletin of the Torrey Botanical Club*: 8/1994
- *Canadian Journal of Forestry Research*: 7/1999, 7/20/2000, 8/21/2001, 1/22/2004, 5/20/2004, 1/23/2006, 12/12/2007, 3/2/2012
- *Conservation Biology*: 5/1993, 11/1995, 4/1996, 9/1997, 7/10/2007
- *Conservation Ecology*: 2/4/2003, 7/17/2003
- *Earth's Future*: 6/13/22, 7/20/25,
- *Ecohydrology*: 7/12/2010, 11/20/11, 10/31/2013; 5/21/15; 2/1/16
- *Ecological Applications*: 4/1994, 4/1997, 12/1998, 8/1999, 2/19/2001, 5/19/2003, 12/30/2004, 9/30/2005, 8/7/2017, 12/27/17
- Ecological Informatics: 3/5/2022
- *Ecological Indicators*: 10/3/2016
- *Ecological Modelling*: 1/30/2006, 1/31/2007
- *Ecological Processes*: 6/1/2019, 5/14/20, 6/19/20, 12/13/2022, 3/7/23,
- *Ecological Research*: 12/20/2004, 7/24/2006
- *Ecology/Ecological Monograph*: 4/2000, 7/18/2007, 3/31/2008, 11/9/2011
- *Ecoscience*: 11/3/2000
- *Ecosystems*: 8/15/2000, 8/18/2000, 9/18/2000, 9/22/2000, 9/2/2004, 4/13/2009, 8/24/2009, 2/28/2013, 8/27/2024,
- *Elsvier*: Book proposal on Microclimate (10/20/19)
- *Environmental and Experimental Botany*: 12/20/2006
- *Environmental Management*: 11/26/2002, 8/18/2004
- *Environmental Pollution*: 5/22/2001, 10/25/2001
- *Environmental Research Letters*: 2/28/2013, 10/8/2013, 3/18/2014, 6/30/14, 9/25/18, 2/26/19, 11/19/19, 3/23/2021, 12/16/23;
- *Environmental Research*: 3/20/2015, 9/2/15
- *Environmental Research-Ecology*: 10/14/24,
- *Forest Ecology and Management*: 9/1997, 2/21/2001, 6/14/2001, 8/23/2004, 11/2/2004, 12/22/2004, 2/28/2005, 8/19/2005,9/26/2005, 12/21/2005, 3/21/2006, 3/29/2006, 7/25/2006, 8/29/2006, 5/3/2007, 7/11/2007, 7/13/2007, 8/31/2007, 9/1/2007, 10/15/2007, 1/22/2008, 1/23/2008, 1/28/2008, 2/15/2008, 9/8/2008, 9/10/2008, 1/23/2009, 1/24/2009, 3/21/2009, 4/10/2009, 6/12/2009 (4), 6/26/2009, 8/20/2009, 10/16/2009, 7/5/2010, 7/6/2010, 8/27/2010, 1/31/2011, 6/24/2011, 8/9/2011, 9/19/2011, 1/11/2012, 10/29/2012, 2/12/2013, 8/12/2013, 9/7/2013, 3/17/2014, 11/26/14, 1/28/15, 7/7/15, 11/6/15, 9/20/16, 11/17/2016, 5/30/17, 6/5/217, 1/2/2019, 6/4/2019, 10/12/19, 7/17/21, 12/1/2022, 3/16/25, 7/20/25,
- *Forest Science*: 10/1994, 9/1998, 7/1999, 8/24/2001, 9/18/2001, 11/14/2001, 12/6/2001, 3/18/2002, 3/26/2002, 4/21/2002, 5/1/2002, 5/15/2002, 6/5/2002, 6/19/2002, 6/20/2002, 8/31/2002, 10/1/2002, 10/22/2002, 12/28/2002, 2/16/2003, 6/27/2003, 7/14/2003, 10/22/2003, 9/2/2004, 7/16/2007, 1/25/2009, 8/21/2009, 3/10/2010, 1/3/2011, 7/27/14
- *Forests*: 3/3/2017
- *Frontiers in Ecology and the Environment*: 9/30/2005, 5/4/2007
- Frontiers in Forests and Global Change
- Global Biogeochemical Cycles: 8/2/24,
- Global Change Biology: 9/24/18
- 3/28/2006, 8/289/2006, 10/29/2006, 9/2/2007, 1/5/2009, 3/16/2011, 4/30/2012, 8/12/2013, 8/12/2016, 12/26/22,
- *Hort Technology*: 1/2000
- *International Journal of Biometeorology*: 5/14/18
- *IUFRO-Chile Conference special issues*: 7/16/2012 (2)
- *Journal of American Society for Horticultural Science*: 4/28/2005

- *Journal of Applied Ecology*: 3/1996
- *Journal of Applied Meteorology*: 12/4/2004
- *Journal of Arid Environments*: 5/1999
- *Journal of Biogeography*: 7/9/2007
- *Journal of Ecology*: 11/1998
- *Journal of Environmental Management*: 6/30/2021
- *Journal of Forest Research*: 10/11/2010
- *Journal of Forestry*: 1/23/2009
- *Journal of Geophysical Research*: 12/19/2007, 5/13/2013, 8/17/14, 8/15/15, 9/9/15
- Journal of Historical Geography: 3/4/2022,
- Journal of Photogrammetry and Remote Sensing: 5/21/15
- *Journal of Integrative Plant Biology*: 4/30/2007, 10/21/2009
- *Journal of Plant Ecology*: 11/19/2006, 3/25/1016, 5/21/2016, 8/26/106, 9/1/2016
- *Journal of Resources and ecology*: 11/7/2018
- *Journal of Soil and Water Conservation*: 1/15, 5/13/2002
- *Journal of the Arkansas Academy of Science*: 7/8/2010
- *Journal of Tropical Forest Science*: 10/1995
- *Journal of Vegetation Science*: 1/1996, 2/1996, 12/30/2004
- *Journal of Wildlife Management*: 11/1994
- *LAND*: 6/23/2021, 1/24/2022,
- *Land Use Policy*: 6/13/18, 9/15/18, 4/28/20,
- *Landscape and Ecological Engineering*: 11/20/2011, 9/16/15
- *Landscape Studie Book review*: Experiments (6/29/21);
- *Landscape and Urban Planning*: 1/24/2005, 12/20/2005, 2/3/2006, 5/12/2006, 10/8/2008, 11/2/2008, 4/6/2009, 6/10/2009, 7/27/14, 6/14/17, 4/5/19, 4/19/2022,
- *Landscape Ecology*: 4/2000, 1/22/2001, 7/15/2002, 3/8/2003, 10/26/2003, 1/7/2004, 1/17/2005, 5/24/2005, 8/17/2009, 1/19/2010, 4/22/2013, 11/12/2013, 2/11/2014, 9/30/14, 4/4/15, 12/28/17, 11/21/19, 2/17/20, 11/13/22,
- *Limnology & Oceanography*: 10/2/14
- National Science Review: 4/23/2021
- Nature: Ecology & Evolution: 8/21/2022
- *Natural Areas Journal*: 10/1996, 12/1996, 8/1998
- *Nature – Geoscience*: 2/22/2025,
- *Nature – Sustainability*: 4/5/2019, 1/20/2020,
- *New Phytologist*: 1/29/2018
- *Northern Journal of Applied Forestry*: 10/14/2006
- *Northwest Science*: 4/1992
- *Open Conservation Biology Journal*: 1/7/2010, 11/19/2011
- *Pedosphere*: 6/23/2005
- *Plant Ecology*: 8/2000, 8/28/2001
- *PNAS*: 8/11/25;
- *Remote Sensing of Environment*: 6/7/2006, 7/30/2008, 4/7/15
- *Remote Sensing*: 9/9/2014, 12/19/16, 12/19/17, 2/23/18
- *Restoration Ecology*: 11/4/2000, 3/19/2009
- *Revista Chileana de Historica Naturare:* 3/25/2002
- *Science of the Total Environment*: 8/24/2007, 1/5/2010, 10/6/17, 2/26/18, 9/10/23, 11/15/23,
- *Scientific Report*: 11/15/16
- *Springer, Book proposal (Spatial Ecology),* 1/25/16
- *Soil Science Society of America Journal*: 1/27/2011
- *Tree Physiology*: 2/4/2001, 5/18/2001, 12/13/2001, 9/11/2006
- *Urban Forestry and Urban Greening*: 10/11/2010, 1/18/2011, 9/18/2012, 6/12/15; 6/7/16
- *Water, Air, and Soil Pollution*: 12/1994

- *Wetland Ecology and Management*: 10/26/2009

2) Books and Book Chapters
- *Forest Ecology* by J.P. Kimmings, 3rd Edition, Prentice-Hall, Inc.: 11/3/2000
- *Book/chapter*, by Birdsey et al, Academic Press: 2009
- McGraw Hill Companies, (4 Chapters) anonymous reviewer: 9/2/2000
- *Forest fragmentation in the S. Rocky Mountains* by Knight et al.: 3/1998
- *Conservation Biology* (Book) by Van Dyke: 1/2/2007
- *Forest Landscape Ecology: Transferring Knowledge to Practice* by Perera et al.: 1/12/2005
- *A New "Journal of Ecological Management",* Higher Education Press: 1/31/2011
- *Learning Landscape Ecology*, Springer-Verlag: 6/1999
- *Scaling in Ecology,* by Wu et al.: 5/19/2003
- *C management*, Springer: 03/29/2005, 2/8/2008
- *Studying for Edge Effects* (Chapter) by Voller: 3/1996

3) Foundation Proposals
- American Association for the Advancement of Science (AAAS): 3/11/2002
- Austrian Science Fund: 5/2010
- Black Well Science (Conservation Biology): 6/6/2004
- Chinese Academy of Sciences: IAE @ 03/08/2018
- Chinese Natural Science Foundation (NSFC): 5 proposals on 5/11/2009, 5 proposals on 5/14/2011, 4 on 5/10/2012, 6 on 5/6/2013, 4 on 4/12/2014, 4 on 5/16/15; 5/6/16; 5/6/16; 8 proposals on 4/19/2018
- Clemson University Experimental Station: 1/2/2004
- Columbia University Press: 11/27/2002
- Competence Center Environment and Sustainability (Europe CCES): 3/25/2007
- Czech Science Foundation: 10/24/2012
- Earthwatch proposal: 8/1998, 9/1998, 5/22/2001
- Ecological Society of America symposium proposal (29): 11/1998
- ESA Annual Meeting Reviewer for 38 abstracts (3/8/2022), 41 abstracts (3/4/2023)
- Ecological Stewardship Project: 3/1997
- Elsevier Book Proposal: 12/20/2022
- Elsevier Science: 8/22/2002, 6/14/20,
- Florida Native Plant Society (FNPS): 3/22/2010
- Foreign Agricultural Service (FAS) USDA: 9/1998
- Fudan University: Chung Kong Scholarships 5/2/2005
- Alexander von Humboldt Foundation: 8/15/2022
- Israel Science Foundation: 3/18/20
  C2M/24/017) of KU Leuven foundation, Belgium (3/9/2023)
- Leopold Center for Sustainable Agriculture: 12/1/2009
- Louisiana Board of Regents' Research Competitiveness Subprogram: 1/10/2010
- Maryland Sea Grant: 5/15/2011
- Multistate/McIntire-Stennis Programmatic Funding Program, MSU (7/11/2025)
- NASA EOS: 7/10/2003, 7/11/2003, 08/2008/2007(2), 9/30/2010/ 4/2011
- National Institute for Global and Environmental Change (NIGEC): 11/1998, 11/12/2001, 9/29/2002, 10/2/2002, 5/30/2003, 1/4/2007, 9/10/2007, 9/10/2008
- National Science Foundation: 3/1996, 7/1997, 10/1998, 3/1999, 10/2000, 3/27/2001, 8/24/2001, 8/19/2001, 3/18/2002, 3/25/2002, 6/5/2002, 8/30/2002, 4/2/2003, 9/19/2005, 3/4/2007, 10/20/2008, 9/10/2009, 9/30/2010, 10/4/2010, 3/2011, 10/1/2012, 6/8/2013, 1/6/15 (PIRE); 1/6/15 (PIRE), 1/6/15 (Arctic), 3/4/15; 10/11/17 (DEB), 10/11/17, 10/12/17; 9/30/19,
- National Sciences and Engineering, Research Council of Canada: 8/11/2006, 6/30/14
- National Office for Science and Technology Awards (China): 6/15/15

- NOAA-SBIR: 3/23/2010, 3/24/2010
- Prentice Hall: 8/18/2006 (Kareiva and Marvier proposal)
- Research Grant Concil of Hong Kong: 3/26/2019 (2 proposals), 2/9/21, 4/11/21, 2/6/2022, 2/19/22, 2/20/22, 2/9/23, 3/23/2025, 6/1/2025,
- SESYNC Proposal: 12/30/2014
- State Natural Science Award: 8/3/16, 8/3/16, 8/10/16
- Sustainable Forest Management Network, Canada: 12/1998, 2/2000, 1/24/2001, 1/21/2002
- Sustainable Michigan Endowed Project: 12/6/2004
- Texas Agricultural Experiment Station proposal: 5/1996
- University of Wisconsin–Madison, Hatch, and MS Program: 10/27/2003
- Urban Forestry & Urban Greening: 12/21/19,
- USDA NRICGP: 3/1996, 1/1997, 1/1997, 4/1998, 3/1999, 3/26/2001, 3/29/2001, 3/18/2002, 3/13/2002, 3/23/2002, 5/5/2005, 5/3/2007
- USDA Agriculture and Food Research Initiative (AFRI) Plant Growth and Development: 7/15/15
- USGS 104b Pre-Proposal Request: 3/12/2025,

4) Special Events, Conferences, and National Organizations
- Bylaw Revision Committee for SINO-ECO Club: 1996
- Central Hardwood Forest Conference Proceedings (GTR): 1/9/2010
- Chair/Organizer, International Conference on Forest Landscape and Management, Chengdu, P.R. China: 9/15–22/2008
- Chair/Organizer, LCLUC/NASA workshop in drylands, Kaifeng, China: 2011
- Co-Convener ESA Session on "Understanding the Influence of Ecosystem Structure on Function: Honoring the Enduring Impact of Dr. Jerry Franklin on Forest Ecology" (OOS-24), The 97th Annual ESA Meeting, Portland, OR: 8/8/2012
- Ecology Committee Member of NASULGC (National Association for State Universities and Land-Grand Colleges): 3/1999 – Present
- ESA symposium organizer: 1993, 1995, 1996, 2002
- Hemlock Conference Proceedings: 2/1996
- Member of Ecology Sub-Committee for National Scientific and Educational Development, P.R. China: 1995
- North Central Technical Committee on Riparian Buffer Zone Management: 1994 – 2001
- Planning Committee member for "Sustainable Forests -- Integrating the Experience", International Conference on Implementing Ecosystem Management, Sault Ste. Marie, Canada: 1995
- Program Committee Member for ESA Annual Meeting: 1996, 1998
- Research Committee for "Prince Alberta Model Forest", Canada: 1994 –1996
- Review for USDA FS Working Unit (NE-4153): 3/2003
- Review for USDA Forest Service Personal Promotions: 1999, 2002, 2006, 2007, 2008
- Session Chair (140) at the ESA Annual Meeting, Montreal, Quebec, Canada: 8/6–11/2005
- Session Chair for IUFRO Landscape Ecology Workshop "Perspective from Other Institutional and Geographic Sectors", Corvallis, OR: 10/2/1996
- Session Chair for IUFRO Landscape Ecology Workshop, Corvallis: 10/2–4/1996
- USDA FS General Technical Report (NC): 8/29/2002
- Workshop organizer (WSHP 14), Annual Meeting of the ESA, Montreal, Quebec, Canada: 8/6–11/2005
- Judge: Two candidates for the 2015 Buell and Braun Awards of ESA, 8/11/15, ESA annual meeting

5) University and Academics:
- Delegation member to Northeastern Forestry University, P.R. China: 8/1994
- Ford Forestry Center Management Plan, MTU: 1995 – 8/2001
- Review for a promotion package at University of New Hampshire: 12/27/2014
- Review for Global Change Position, Fudan University: 5/2011
- Review for Promotion to full prof at Iowa State University, 9/9/2024
- Review for Promotion (full prof), Ohio State University: 8/2017

- Review for Tenure and Promotion, Binghamton University: 12/2005
- Review for Tenure and Promotion, Ohio University: 4/2007
- Review for Tenure and Promotion, Oklahoma State University: 11/25/2013
- Review for Tenure and Promotion, Oklahoma State University: 12/9/2012
- Review for Tenure and Promotion, University of Nevada: 8/2008
- Review for Tenure and Promotion, University of New Hampshire: 11/3/2011
- Review for Tenure and Promotion, University of Wisconsin: 1/6/2014
- Review for two Promotions, Eastern Normal University: 1/9/2016
- Review for two Promotion, University of North Texas, 8/17/2016
- Review for a Promotion, Purdue University, 8/19/2018
- Review for a Tenure & Promotion, University of Iowa, 10/30/2018
- Review for a Tenure & Promotion, Michigan Tech University, 1/3/2019
- Review for a Tenure, Beijing University, 3/14/2020
- Review for a Tenure & Promotion, Iowa State University, 9/13/2020
- Review for a Tenure & Promotion, University of New Hampshire, 9/13/2020
- Review for a Tenure & Promotion, Beijing University, 3/26/2022 (Yushun Chen)
- Review for a Tenure & Promotion, Beijing University, 4/9/2024 (Z. Jin)
- Assessment of a promotion, Lawrence Berkeley Nat Lab, 1/19/2021
- Assessment of a promotion, Columbia University -GISS, 8/12/2025
- Co-Nominator, Dr. Shuli Niu for XPLORER PRIZE, 4/26/2021

OTHER INVOLVEMENT:

- Leadwire Interview (8/19/2022): https://urldefense.com/v3/__https://leadwire.com__;!!HXCxUKc!0Wm1igrx
- 3/20/2010: Judge for the "2010 Midwest Graduate Research Symposium" at University of Toledo.
- 12/28/2009: Assisted high school student Nicholas Labardee on biomass and energy science project.
- 2/25-3/30/2019: Host of a highschool student (Yangyang – St John J Highschool) for Intern Experience at LEES Lab.
- Nominations: Gabriela Shirkey (Thompson Endowment Award and a Research Scholars Award – 2018, successful); Cheyenne Lei (LTER Fellowship – 2018, successful), Piero Sciusco (IALE travel – successful); NSF Fellowship – successful, 2019).