



Tian Guo

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Cooperative Institute for Great Lakes Research
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EDUCATION

Ph.D. North Carolina State University, Parks Recreation & Tourism Management	2016
M.S. North Carolina State University, Statistics	2016
M.S. University of Minnesota, Natural Resources Science and Management	2012
M.S. Sichuan University, Tourism Management	2012
B.S. Sichuan University, Tourism Management	2009

APPOINTMENTS

2017-present	Postdoctoral Research Fellow University of Michigan, Cooperative Institute for Great Lakes Research
2016-2017	Postdoctoral Research Associate University of Maine, School of Forest Resources

SCHOLARSHIP

PEER REVIEWED ARTICLES (PUBLISHED OR IN PRESS)

8. **Guo, T.**, Gill, D., Johengen, T., & Cardinale, B. (2019). What determines the public's support for water quality regulations to mitigate agricultural runoff? *Environmental Science and Policy*, 101, 323-330.
7. **Guo, T.**, Nisbet, E., & Martin, J. (2019). Identifying mechanisms of environmental decision-making: How ideology and geographic proximity influence public support for regulating agricultural runoff to curb harmful algal blooms. *Journal of Environmental Management*, 241(1), 264-272.
6. **Guo, T.**, Leahy, J., Silver, E., Danks, C., & Adams, M. (2019). A regional social-network analysis of the automated wood pellet heating industry in pursuing homeowners' satisfaction. *Forest Products Journal*. 68(2), 182-190.
5. Guo, J.-H., **Guo, T.**, Lin, K.-M., Lin, D.-D., Leung, Y.-F., & Chen, Q.-H. (2019). Managing congestion at visitor hotspots using park-level use level data: Case study of a Chinese World Heritage Site. *PLOS ONE* 14(7), e0215266.
4. **Guo, T.**, Smith, J. W., Moore, R. L. & Schultz, C. L. (2017). Integrating off-site visitor education into landscape conservation and management: An examination of timing of

educational messaging and compliance with low-impact hiking recommendations. *Landscape and Urban Planning*, 164, 25-36.

3. Leung, Y.-F., Smith, J. W., Seekamp, E., Conlon, K., Mayer, J. E., **Guo, T.**, Walden-Schreiner, C., Adams, B., & Keane, R. (2016). The effects of 2D and 3D imagery and an educational message on perceptions of trail impacts. *Natural Areas Journal*, 36(1), 88-92.
2. **Guo, T.**, Smith, J. W., Moore, R. L., Seekamp, E., & Leung, Y.-F. (2015). Determinants of responsible hiking behavior: Results from a stated preference experiment. *Environmental Management*, 56(3), 765-776.
1. **Guo, T.**, & Schneider, I. E. (2015). Measurement properties and cross-cultural equivalence of negotiation with outdoor recreation constraints. *Journal of Leisure Research*. 47(1), 125-153.

PEER REVIEWED ARTICLES (IN REVIEW OR PREPARATION)

5. **Guo, T.**, Nisbet, E., Hart, S., & Cardinale, B. (In revision). How do political ideology and environmental worldviews affect individual attitudes toward policies to mitigate agricultural runoff: A mediation model.
4. **Guo, T.**, Graydon, R., Cole-Misch, S., & Bejankiwar, R. (In revision). The social basis for Great Lakes protection: An analysis of International Joint Commission Binational Polls. Revise and resubmit to *Canadian Water Resource Journal*.
3. Olechnowicz, C., Leahy, J., **Guo, T.**, Huff, E. S., Danks, C., & Adams, M. (In revision). The establishment of wood pellet residential technology in the Northeastern U.S.: Perception of industry innovators.
2. Fujisaki-Manome, A., Gill, D. G., **Guo, T.**, Anderson, E. A., & Lemos, M.C. (In review) Knowledge Co-production in a Research-to-Operation (R2O) Process of Great Lakes Ice Forecast: Reflection from a Stakeholder Engagement Workshop. Submitted to *Earth's Future* in November 2019.
1. **Guo, T.**, Gill, D. G., Fujisaki-Manome, A., & Anderson, E. A. (In preparation). How to transition weather forecast models into usable decision-making tools- A social science case study of Great Lakes ice forecast. Target Journal: Bulletin of American Meteorological Society.

GRANT IN REVIEW

2. Fujisaki-Manome, A. (PI), **Guo, T.**(Co-PI), & Anderson, E. A (Co-PI). *Improving Uncertainty Messaging for Great Lakes Ice Forecast*. FY2020 NOAA OWAQ Research Programs. Proposal in review. \$579k requested.
1. Campbell-Arvai, V. (PI), **Guo, T.** (Co-PI) Godwin, C. (Co-PI). *Quantifying the mechanisms and impacts of HABs and NOAA HABs forecast products on Lake Erie tourism and recreation* FY2020 NOAA NOS NCCOS HAB Socioeconomics Program. Proposal in review. \$704k requested.

STAKEHOLDER REPORTS

5. Fujisaki-Manome, A., Gill, D., Anderson, E., **Guo, T.**, & Lemos, M. C. (2019). *Report on the Great Lakes Ice Forecast Workshop*. Prepared by the Cooperative Institute for Great Lakes Research and NOAA Great Lakes Environmental Research Laboratory (GLERL).
4. Rowe, M., Errera, R. M., Rutherford, E., Elgin, A., Pilcher, D., Day, J., & **Guo, T.** (2019) *Great Lakes Region Ocean Acidification Research Plan*. In *2020 NOAA Ocean and Great Lakes Acidification Research Plan*. NOAA Special Report.
3. Burroughs, K., Davis, J., **Guo, T.**, Ojewola, T., Pitt, A., Powell, R. B., Sharp, R., Riungu, G., & Verbos, R. I. (2015). *Great Sand Dunes National Park and Preserve: A social science needs assessment*. National Park Service, Georgia Wright Society, Denver, Colorado. (Authorship listed in alphabetical order)
2. **Guo, T.**, Whitlow, M., Moore, R. L., Seekamp, E., Barbieri, C., Floyd, M. F., & Goode-Vick, C. (2014). *2013 North Carolina state parks visitor per vehicle study final report*, Raleigh, North Carolina.
1. Schneider, I. E., & **Guo, T.** (2011). *Quality of life: Assessment for transportation performance indicators report on Minnesota Resident Questionnaire*. University of Minnesota, Minnesota Department of Transportation, Minneapolis, Minnesota.

SELECT CONFERENCE PRESENTATIONS AND INVITED TALKS

11. **Guo, T.** (2019). *How to integrate social science into NOAA GLERL's science enterprise*. Talk given at NOAA Great Lakes Environmental Research Laboratory (GLERL) All-Hands Meeting.
10. **Guo, T.** (2019). *Hypothesis testing in social science: Results from 2018 Ohio residents harmful algal blooms survey*. Talk given at NOAA Great Lakes Environmental Research Laboratory (GLERL) Brown Bag Series.
9. **Guo, T.** (2019). *Examining psychological determinants of public support for environmental regulation in the context of agricultural nutrient runoff and harmful algal blooms in Lake Erie*. Paper session presented at the 25th International Symposium on Society and Resource Management (ISSRM). June 19-22, 2019. Oshkosh, Wisconsin.
8. **Guo, T.**, & Leahy, J. (2017, June). *The complex system of sustainable energy supply in local economy transition – A social network analysis of the wood pellet industry in the northeastern US*. Paper session presented at the 23rd International Symposium on Society and Resource Management (ISSRM). June 19-22, 2017. Umeå, Sweden.
7. **Guo, T.**, Leahy, J., & Smith, J. W. (2017, April). *The use of social network analysis to inform parks, protected areas, and cultural sites management: A review of previous research and an illustrative example*. Poster session proposal presented at the 19th George Wright Society Conference. April 2-7, 2017. Norfolk, Virginia.
6. **Guo, T.**, Smith, J. W., & Moore, R. L. (2016, June). *A comparison of SAS, STATA, and R in fitting General Linear Mixed Models with implications for contingent behavior experiments in outdoor recreation research*. Poster session presented at the 22nd International Symposium on Society and Resource Management (ISSRM), in Houghton, Michigan.

5. **Guo, T.**, Schultz, C. L., & Moore, R. L. (2016, February). *Juggling multiple expectations: Challenges in preparing doctoral students for the professoriate*. Paper session presented at 2016 Academy of Leisure Science Teaching Institute (ALSTI). Greenville, North Carolina.
4. Schultz, C. L., Moore, A. C., **Guo, T.**, & Moore, R. L. (2016, February). *Examination of reflection as a learning tool in study abroad programs*. Paper session presented at 2016 Academy of Leisure Research Science Institute (ALSTI). Greenville, North Carolina.
3. **Guo, T.**, Schultz, C. L., Floyd, M. F., & Moore, R. L. (2015, September). *Non-probability-based sampling and social justice study*. Paper session presented at the 50th National Recreation and Park Association Conference (NRPA). Las Vegas, Nevada.
2. **Guo, T.**, Seekamp, E., Barbieri, C., Moore, R. L., Floyd, M. F., Goode-Vick, C., Whitlow, M., & Colon, K. (2014, May). *Conducting economic impact studies: Lessons learned from the 2013 North Carolina State Parks Project*. Paper session presented at 2014 National Outdoor Recreation Conference. San Francisco, California.
1. **Guo, T.**, Canete, N. S., & Moore, R. L. (2013, June). *Twitter as a research tool: What people tweet about the Appalachian Trail*. Paper session presented at the 19th International Symposium on Society and Resource Management (ISSRM). Estes Park Center, Colorado.

TEACHING AND MENTORING

CERTIFICATES

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| 2019 | Rackham Professional Development Diversity, Equity, Inclusion Certificate, University of Michigan |
| 2019 | Certificate of Diversity and Inclusion in Teaching, University of Michigan |
| 2016 | Certificate of Accomplishment in Teaching, NC State University |

COURSES TAUGHT AS THE LEAD INSTRUCTOR

NC State University

- PRT 380: Analysis and Evaluation in Parks, Recreation, and Tourism, lectures and labs, 21 students, Summer 2014
- PRT 380: Analysis and Evaluation in Parks, Recreation, and Tourism, labs, 22 students, 2015; 40 students, 2013; 20 students 2012

GUEST LECTURE

The University of Maine

SFR 220: Environment and Society, in-person, 96 students, 2016

NC State University

- PRT 380: Analysis and Evaluation in Parks, Recreation, and Tourism, in-person, 20 students, 2016
- PRT 350: Outdoor Recreation Management, in-person, 35 students, 2016

- PRT 380: Analysis and Evaluation in Parks, Recreation, and Tourism, on-line, 80 students, 2015
- PRT 222: Commercial Recreation and Tourism Management, in-person, 40 students, 2015
- ST 715: Sampling method, in-person, 40 students, 2014
- PRT 477/486: Park, Recreation, and Tourism Management Senior Seminar-Career Development, in-person, 50 students, 2014
- PRT 152: Introduction to Parks, Recreation, and Tourism, on-line, 90 students, 2014;
- PRT 152: Introduction to Parks, Recreation, and Tourism, in-person, 102 students, 2013
- PRT 238: **Diversity and Inclusion**, in-person, 103 students, 2013

GRADUATE STUDENT ADVISEE

Ian Anderson. The paradigm of engagement: integrating social science and extension to engage beginning family forest owners, University of Maine, 2017.

UNDERGRADUATE STUDENT ADVISEES

- Emma Ortlieb. How does protecting Great Lakes contribute to happiness and wellbeing? Designing the architecture of a Great Lakes Observing System for Human Dimensions (GLOS HD). Undergraduate Research Opportunity Program (UROP), University of Michigan, September 2018 – April, 2019.
- Jennifer Tompkins. Is regulation on agricultural nutrient runoff to curb harmful algal blooms in Lake Erie acceptable to Ohio residents? Great Lakes Summer Fellow Program, University of Michigan, June-August, 2018,

SERVICE

REVIEWER FOR JOURNALS

Journal of Great Lakes Research, Journal of Parks and Recreation Administration, Park Science, Leisure Sciences, Journal of Leisure Research

REVIEWER FOR FUNDING AGENCIES

2019 University of Wisconsin Sea Grant College Program
2019 Ohio State University SEED program

SELECT PROFESSIONAL SERVICES AND RECRUITMENT ACTIVITIES

2018-present NOAA Great Lakes Environmental Research Laboratory (GLERL) Social Science Lunch for Interdisciplinary Research Committee

2019 Poster judge at University of Michigan Undergraduate Research Opportunity Program (UROP) Spring Symposium

2018 CIGLR Summit Revisiting the Prescription: Identifying a conceptual framework for approaches to restoring and protecting the Great Lakes

2015 Recruiting students at the 4th NC State Annual Undergraduate Research “Speed Data-ing” Event