

# Rebecca Lynn Kauten, PhD – Biographical Sketch

## (a) Professional Preparation

Iowa Lakeside Laboratory & Regents Resource Center, Postdoctoral Scholar, 2020

University of Iowa, Geographical and Sustainability Sciences, PhD, 2019

University of Iowa Certificate in Geoinformatics, 2018

University of Northern Iowa Public Policy, 2006

University of Northern Iowa English Bachelor of Arts, 1999

## b) Appointments

2023-Present: Adjunct Assistant Professor, University of Iowa

2020-Present: Scientist in Residence, Iowa Lakeside Laboratory & Regents Resource Center

2019-2020: Visiting Assistant Professor & Adjunct Instructor, University of Iowa

2016-Present: Online Instructor, Montana State University at Billings

2015-2020: Adjunct Instructor, University of Northern Iowa

2016-2019: Graduate Teaching Assistant, University of Iowa

2014-2015 Graduate Research Assistant, University of Iowa

2010-2014 Senior Research Associate, University of Northern Iowa

2008-2010 Urban Water Monitoring Coordinator, Iowa Department of Natural Resources

2004-2008 Watershed Improvement Project Manager, Black Hawk Soil & Water Conservation District

## (c) Products

**Kauten, R.** (2022) *Preserving the Fen: A Personal Story*. In C. F. Mutel (ed.) *Tending Iowa's Land: Pathways to a Sustainable Future*. (pp.209-212). University of Iowa Press.

McDermott, V., **Kauten, R.**, Gee, J., & May, A. (2022). Understanding and Mitigating Interpersonal Communication Conflict in Field-Based Institutions. *The Bulletin of the Ecological Society of America*, e2037.

**Kauten, R. L.**, & Calvin, O. J. (2022). Assessing On-Water Recreation Experiences in Midwestern US Glacial Lakes: Identifying Areas of Conflict and Agreement. In *Cultural Sustainable Tourism* (pp. 209-222). Springer, Cham.

**Kauten, R.** (2020). Scale Mismatches When Assessing Chloride Concentration and Corrosiveness Using Statewide Data for Trend Analysis. *International Journal of Geospatial and Environmental Research*: Vol. 7: No. 2, Article 4.

**Kauten, R.** (2020). Chloride Dynamics in Urban Streams: An Eastern Iowa Case Study. *The Journal of the Iowa Academy of Science*: January-December 2020, Vol. 127, No. 1-4, pp. 1-8.

**Kauten, R.** (2015). Establishing Strategies for a Transportation MS4 (No. SPR RB36-013). University of Iowa. National Transportation Library Publication. United States Department of Transportation.

Serio, M., & **Kauten, R.** (2014). Stormwater Sampling, Water Quality Monitoring and Active DOT Construction Sites: Lessons Learned from Two Years of Data. *Proceedings of the National Hydraulic Engineering Conference*, Iowa City, Iowa.

**Kauten, R.**, Chamberlain, H., Spielbauer, R., & Beeler, M. (2014). Practical data collection: establishing methods and procedures for measuring water clarity and turbidity of storm water run-off from active major highway construction sites (No. RT1022). Iowa Department of Transportation.

Zhang, Y., McBroom, M. W., Degroote, J., **Kauten, R. L.**, & Barten, P. K. (2011). Web-based spatial decision support system and watershed management with a case study. *International Journal of Geosciences*. 2, 195-203.

**Kauten, R.** (2015) *Stormwater Monitoring: A Primer on Basic Data & Methods*. ISBN: 9780984759316. Forrester/Penwell Books. Tulsa, OK.

**Kauten, R.**, Noll, B. and Flack, B. (2014). O&M in the USA: How Two Communities View Maintenance of Low Impact Development (LID). *Environmental Connection*. Volume 8, Issue 1.

**Kauten, R.**, Wilson, B. and Michels, J. (2013). Impaired Urban Waters & TMDLs: Stormwater Volume Controls that Work. *Land & Water Magazine*. Volume 57, No. 6.

**Kauten, R.** (2010) Iowa Environmental Literacy Plan. Lead author and policy advisor. Iowa Conservation Education Coalition.

#### **(d) Synergistic Activities**

- Outstanding Paper (2017). Beyond Chloride: Quantifying Secondary Effects of Freshwater Salinization. American Association of Geographers Water Resources Group, Boston, MA.
- Fulbright-Hays Student Study Abroad Scholarship (2016). Promises & Pitfalls of Development. Rajasthan, India.
- Stanley International Research Scholarship (2015). Water Resources, Urban Infrastructure. Stockholm, Sweden.
- Appointment by Gov. Kim Reynolds, State of Iowa Natural Preserves Board of Directors (2018)
- Graduate College Outstanding Alumna, University of Northern Iowa (2015)
- Honorary Member, Conservation Districts of Iowa (2014)
- Great Rivers Chapter of the International Erosion Control Association (2008-2014); President (2011), Secretary (2008-2010, 2012-2014)
- Officer for the Cedar River Clean Up and Music Festival (1996-97) and President (2008-2015)
- Developed a strategic plan for Iowa Department of Transportation regarding stormwater program establishment and management. (2012-2014)
- Established water monitoring protocols for field-based data collection by Iowa Department of Transportation on major roadway construction sites. (2011-2013)
- Developed a statewide urban water quality monitoring strategy for Iowa Department of Natural Resources. (2008-2010)
- Served as lead author of the Iowa Environmental Literacy Plan in 2011
- Affiliate with the North American Association of Environmental Education on behalf of the Iowa Conservation Education Coalition from 2009-2012
- State of Iowa Governor's Award for Volunteerism (2006)
- EPA Region 7 Environmental Literacy Planning Team Member on behalf of Iowa Conservation Education Coalition (2008-2011)

#### **(e) Collaborators, Co-Editors & Other Affiliations**

Rhonda Struminger, University of Padua and CICHAZ; Jennifer Gee, James Reserve University of California Riverside; Victoria McDermott, University of Alaska Fairbanks; Amy May, University of Alaska Fairbanks; Peter Levi, Drake University; Ramanathan Sugumaran, University of Northern Iowa; John Degroote, University of Northern Iowa; Mary Skopec, Iowa Department of Natural Resources; Melissa Serio, Iowa Department of Transportation

#### **Undergraduate Research Supervision:**

- K. Cooper, University of Iowa and Iowa Lakeside Laboratory: Understanding Terrestrial Eutrophication in an Agricultural Landscape (2023)
- B. Hogue & B. Dennehy, University of Iowa and Iowa Lakeside Laboratory: A Comparison of Soil Organic Carbon and Patch-Burn Grazing (2023)
- B. Hogue and A. Caraballo, University of Iowa and Iowa Lakeside Laboratory: Assessing Carbon Sequestration Potential in Prairie and Agricultural Soils (2022)
- D. Hebrink, University of Iowa: Modeling of Urban and Rural Nonpoint Source Pollution to Milford Creek (2022-2023)
- A. Kleve, Iowa State University and Iowa Lakeside Laboratory: Hydrologic Response to Fen Restoration (2020-2022)
- J. Skow, Iowa State University and Iowa Lakeside Laboratory: Union Slough NWR and Wetland Restoration Practices Over Time (2021-2022)
- A. Caraballo, University of Iowa and Iowa Lakeside Laboratory: Invasive Species Assessment in a Restored Oak Savannah (2022)
- O. Calvin, Coe College: Assessing On-Water Recreation Preferences in the Iowa Great Lakes Region (2020-2022)

#### **Graduate Advisors:**

Eric Tate, University of Iowa; Allen Hays, University of Northern Iowa