

Madeline R. Magee

Postdoctoral Research Fellow

608-338-7155
mrmagee@wisc.edu
magee.madeliner@gmail.com
madelinemagee.weebly.com

EDUCATION

Ph.D., Civil and Environmental Engineering, University of Wisconsin-Madison, Aug. 2016

Thesis: *Simulation of lake thermal structure, ice cover, and fish habitat in response to changing climate*

Advisor: Dr. Chin Wu

B.C.E., Civil Engineering, University of Minnesota, May 2010

Senior Design Thesis: *Design of vector waste receiving site at Metropolitan Wastewater Treatment Plant, Saint Paul Minnesota*

Graduated with high distinction

EXPERIENCE

- | | |
|----------------|---|
| 2016 – present | Postdoctoral Research Fellow
Center for Limnology, University of Wisconsin – Madison
Supervisor: Peter McIntyre |
| 2010 – 2016 | Graduate Research Assistant
Civil and Environmental Engineering University of Wisconsin – Madison
Supervisor: Dr. Chin Wu |
| 2013 – 2016 | Teaching Assistant
CEE 291: Problem Solving Using Computer Tools
Civil and Environmental Engineering, University of Wisconsin – Madison
Supervisor: Dr. Chin Wu |
| 2010 | Water Supply Planning Intern
Metropolitan Council of the Twin Cities
Supervisors: Christopher Elvrum and Lanya Ross |
| 2009 – 2010 | Civil Engineering Intern
Civil Utilities, University of Minnesota
Supervisor: Cathy Abene |
| 2006 – 2009 | Engineering Assistant
Energy Management, University of Minnesota
Supervisor: John Cook |

PUBLICATIONS

Magee, M.R. and Wu, C.H. 2016. Effects of changing climate on ice cover in three morphometrically different lakes. *Hydrological Processes*. In press.

Magee, M.R., Wu, C.H., Robertson, D.M., Lathrop, R.C., and Hamilton, D.P. 2016. Trends and regime shifts in 100-year ice cover and water temperatures in a dimictic lake in response to changes in air temperature, wind speed, and water clarity. *Hydrology and Earth Systems Sciences*, 20, 1-22. doi:10.5194/hess-20-1-2016

IN REVIEW

Magee, M.R. and Wu, C.H. Response of water temperatures and stratification to changing climate in three lakes with different morphometry. *Hydrology and Earth Systems Sciences Discussion*. doi: 10.5194/hess-2016-262. In review

Hamilton, D.P., **Magee, M.R.**, Wu, C.H., Kratz, T.K. Ice cover and thermal regime in a dimictic seepage lake under climate change. *Inland Waters*. In review

IN PREPARATION

Magee, M.R., McIntyre, P.B., Hanson, P.C., Wu, C.H., Meteorological and water quality factors influencing cisco oxythermal habitat in Lake Mendota, WI, USA. In preparation for *Canadian Journal of Fisheries and Aquatic Sciences*

Magee, M.R. and Wu, C.H. Oxythermal fish stress in response to changing air temperature using a cumulative dosage approach. In preparation for *Journal of Environmental Management*

Gerds, N., **Magee, M.R.**, Wu, C.H. Seasonal response of lake evaporation to climate change. In preparation

LEADERSHIP

- | | |
|-------------|--|
| 2009 – 2010 | Secretary and Treasurer
Chi Epsilon – National Civil Engineering Honor Society, University of Minnesota Student Chapter |
| 2009 – 2010 | Scholarship/Internship Director
Society of Women Engineers, University of Minnesota Student Chapter |
| 2009 – 2010 | Student Advisor
Plumb Bob Honorary Institute of Technology Leadership Group |
| 2009 | Vice President
American Society of Civil Engineers, University of Minnesota Student Chapter |
| 2008 – 2009 | President
Plumb Bob Honorary Institute of Technology Leadership Group |
| 2008 – 2009 | Publicity Director
Society of Women Engineers, University of Minnesota Student Chapter |

NOTABLE HONORS AND AWARDS

2013	University of Wisconsin – Madison Water Resources Award
2012, 2011	National Science Foundation Graduate Research Fellowship – Honorable Mention
2012,13,15	Becker Travel Grant
2011	Anna Grant Birge Award
2010	University of Wisconsin College of Engineering Grainer Distinguished Fellowship
2010	ASCE Goodman Award
2010	ASCE Midwest Regional Conference Student Presenter Award
2009	University of Minnesota Institute of Technology Student Leadership Award
2009	Induction into Chi Epsilon – National Civil Engineering Honor Society
2009	Induction into Tau Beta Pi – The Engineering Honor Society
2009	Chi Epsilon Scholarship
2009	Frank Louk Award
2008	J.G. Waits Award
2007	Ruhnke Award
2006	Robert C. Byrd Federal Excellence Scholarship

MENTEES

2013 – 2015	Alexa Sampson Civil and Environmental Engineering, University of Wisconsin – Madison
2012	Nathan Gerds Civil and Environmental Engineering, University of Wisconsin – Madison
2009 – 2010	Melissa Shauer Civil Engineering, University of Minnesota
2008 – 2009	Kathryn Klarich Civil Engineering, University of Minnesota

SOCIETY MEMBERSHIPS

American Society of Civil Engineers (ASCE)
American Society of Limnology and Oceanography (ASLO)
Environmental and Water Resources Institute (EWRI)
American Water Resources Association (AWRA)
Society of Women Engineers (SWE)
Tau Beta Bi – The Engineering Honor Society
Chi Epsilon – National Civil Engineering Honor Society

PRESENTATIONS

*invited presentation

Magee, M.R. April 2016. Can we bring back Lake Mendota's cisco? The (multi) million-dollar question. UW-Madison Water Resources Engineering Seminar. Madison, WI. *Oral presentation*

Magee, M.R. and Wu, C.H. March 2016. Evaluating oxythermal stress and predicting fish kills under climate and land-use changes. Wisconsin Ecology Symposium, Madison WI. *Poster presentation*

Magee, M.R. and Wu, C.H. March 2016. Evaluating oxythermal stress and predicting fish kills under climate and land-use changes. American Water Resources Association – Wisconsin Section, Wisconsin Dells, WI. *Poster presentation*

***Magee, M.R.** February 2016. Impact of climate change on ice cover and thermal structure in response to changing climate. Environmental Engineering seminar. Madison, WI. *Oral presentation*

Magee, M.R. and Wu, C.H. March 2015. Temperature dosage: A novel method for quantifying oxythermal stress in coldwater fish species. American Water Resources Association – Wisconsin Section, Oconomowoc, WI. *Poster presentation*

***Magee, M.R.** Harrison, J. Wu, C.H. February 2015. INFOS-Yahara-HR: Forecasting human response to lake environment due to climate change. Forum 2015: UW-Madison Sustainability Forum. Madison, WI. *Poster presentation*

Magee, M.R. October 2014. Oxythermal stress of coldwater fish in a dimictic lake in response to changing climate. UW-Madison Water Resources Engineering Seminar. Madison, WI. *Oral presentation*

***Magee, M.R.** April 2013. Oxythermal stress of cisco in Fish Lake in response to changing climate. North Temperate Lakes LTER Young Scientist Meeting. Madison, WI. *Oral presentation*

Magee, M.R. and Wu, C.H. March 2013. Oxythermal stress of a dimictic lake in response to changing climate. American Water Resources Association-Wisconsin Section. Brookfield, WI. *Oral presentation*

Magee, M.R. and Wu, C.H. November 2012. Impacts of climate change on ice cover and thermal structure in southern Wisconsin lakes of differing morphometry. 32nd International Symposium of the North American Lake Management Society. Madison, WI. *Oral presentation*

Magee, M.R. November 2012. Impacts of climate change on ice cover and thermal structure in southern Wisconsin lakes of differing morphometry. UW-Madison Water Resources Engineering Seminar. Madison, WI. *Oral presentation*

Magee, M.R. and Wu, C.H. March 2012. Impacts of climate change on ice cover and thermal structure in three southern Wisconsin lakes of differing morphometry. American Water Resources Association-Wisconsin Section. Wisconsin Dells, WI. *Oral presentation*

***Magee, M.R.** November 2011. Impact of climate change on ice cover in three southern Wisconsin lakes with differing morphometry. North Temperate Lakes LTER Young Scientist Meeting. Madison, WI. *Oral presentation*

Magee, M.R. March 2011. Trends of ice cover and thermal structure in three southern Wisconsin lakes. UW-Madison Water Resources Engineering Seminar. Madison, WI. *Oral presentation*

Magee, M.R. March 2010. Ethics and the civil engineer of 2025: Increased involvement in public policy. ASCE Midwest Regional Conference. *Oral presentation* *student presenter award*