

## JENNIFER E. SLATE

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### EDUCATION

*Ph.D., Environmental Biology* University of Louisville (1998).  
*B.S., Biology* University of Notre Dame (1991).

### PROFESSIONAL EXPERIENCE

Department of Biology, Northeastern Illinois University (2004-Present). *Full Professor since 2013, Department Chair since 2020*  
Department of Geology and Environmental Geosciences, Northern Illinois University (2002-2004). *Adjunct Assistant Professor*  
Department of Biological Sciences, Old Dominion University (1999-2002). *Assistant Professor*  
Center for Great Lakes & Aquatic Sciences, University of Michigan (1998-1999). *Postdoctoral Research Fellow*

### RESEARCH GRANTS (LAST 5 YEARS)

**Slate, J. E.**, “Phytoremediation of Wastewater: Using Algae in Water Reclamation.” 2020. Student Center for Science Engagement, Northeastern Illinois University, \$12,000.  
Sanders, L. (P.I.), **Slate, J. E.** and Hemzacek, J. 2018. “Pilot Study on Factors Affecting Distribution of Native Mussels in the North Branch Chicago River.” U. S. Department of Agriculture, \$5000.  
Adler, R. (P.I.), Hibdon, J., Srinivas, S., Wheeler, D., **Slate, J. E.** 2016-2020. “Integrating Science, Mathematics, and Computing within an Elementary and Middle School Pre-Service Teacher Education Curriculum” National Science Foundation (NSF STEM + C Grant ), \$700,608.

### PUBLICATIONS AND PRESENTATIONS (LAST 5 YEARS)

**Slate, J. E.** and P. Geddes. 2026 Invasive plants and their relationship to ecosystem properties: A multi-week authentic research project. *Teaching Issues and Experiments in Ecology: TIEE*. In press.  
**Slate, J. E.**, Adler, R.F., Hibdon Jr., J.E, Mayle, S. T., Kim, H., and Srinivas, S. 2019. A Multidisciplinary Approach to Incorporating Computational Thinking in STEM Courses for Preservice Teachers. In (R. M. Reardon & J. Leonard, eds) *Integrating Digital Technology in Education, Information Age Publishing Inc.: Charlotte, NC.*  
**Slate, J. E.** “Scientific Modeling- Not Just for Scientists!” Presented at the Inquiry and Design Institute for Connected Learning, Center for College Access and Success, Northeastern Illinois University, 2018.  
**Slate, J. E.**, Santos, J., Ain, U., and Figueroa, E. "Integrating ecological modeling and computer programming into a biology course taken by future teachers." Presented at the Midwest Ecology and Evolution Conference, Michigan State University, 2018.  
**Slate, J. E.** "Incorporating modeling and computer coding into science and math courses." Excellence in Teaching Mathematics and Science: Research and Practice (20th Annual Chicago Symposium Series), Northeastern Illinois University, 2018.  
**Slate, J. E.** “Sponges of Volo Bog.” Invited talk to the Friends of Volo Bog Nature Preserve, Volo Illinois, 2018.  
**Slate, J. E.** “Discover the smallest organisms living in Pinhook Bog.” Invited talk at Science Saturdays, Indiana Dunes National Park, 2018.

## JENNIFER E. SLATE, Continued

### STUDENT CONFERENCE PRESENTATIONS (LAST 5 YEARS)

- \*Crow, S., \*Karic, H., \*Adams, A., and **Slate, J.** “Diatom algae and other epizoic microorganisms on the shells of two snapping turtles: *Macrochrylys temminckii* and *Chelydra serpentina*.” Presented at the North American Diatom Symposium, Brazil, Indiana, 2022.
- \*\*Ceballos, C. **Slate, J.**, Kumar, K., Gross, M., and Wen, Z. “Use of diatoms and other algae in a novel wastewater treatment system.” Presented at the North American Diatom Symposium, Brazil, Indiana, 2022.
- \*Leach, Alexis, \*\*Ceballos, C., **Slate J.**, Kuldip Kumar, and Martin Gross. “The use of benthic wetland algae for tertiary wastewater treatment in Chicago, Illinois.” Presented at the Wisconsin Wetlands Association conference, 2022.
- \*Belloso, E., \*Jimenez, M., \*\*Ceballos, C., and **Slate, J.**, Kumar, K., and Gross, M. “Examining the impact of algae on microbial communities in wastewater.” Presented at the Phycological Society of America conference, virtual 2021.
- \*\*Ceballos, C., \*Belloso, E., \*Jimenez, M., **Slate, J.**, Kumar, K., Gross, M. “Use of algae in a novel wastewater treatment system.” Presented at the Phycological Society of America conference, virtual 2021.
- \*\*Ceballos, C., \*\*Rayan, R., \*Belloso, E., \*Jimenez, M., \*Sochacki, B. and **Slate, J.** “Analysis of freshwater sponge spicules to identify wetland *Spongilla* species.” Presented at the Wisconsin Wetlands Association, virtual, 2021. Best Student Poster Award.
- \*Jimenez, M., \*Belloso, E., \*\*Ceballos, C. and **Slate, J.** “Growing algae in wastewater to mitigate climate change.” Presented at the Climate Change Conference, Loyola University Chicago, 2021.
- \*Sochacki, B., \*Gomez, S., and **Slate, J.** “Busse Lake’s South Pool is Ideal for Piscivorous Fish Populations Due to High Zooplankton Densities.” Presented at the Midwest Ecology and Evolution Conference, February, 2020, Macomb, Illinois.
- \*\*Ceballos, C., \*Crow, S., and **Slate, J.** “Freshwater sponges of the upper Midwest and Canada.” Presented at the Midwest Ecology and Evolution Conference, February, 2020, Macomb, Illinois.
- \*Crow, S., \*\*Karic, H., \*Adams, A., and **Slate, J.** “Epizoic organisms on captive snapping turtles.” Presented at the Midwest Ecology and Evolution Conference, February, 2020, Macomb, Illinois.
- \*Tran, G., \*Barrios, T. L., and **Slate, J.** “Phytoremediation of wastewater: using green algae for phosphorus removal.” Presented at the Midwest Ecology and Evolution Conference, February, 2020, Macomb, Illinois.
- \*\*Thiel, S. E. and **Slate, J.** “An agent-based ecological model of West Nile Virus for classroom use.” Presented at the International Symposium on Biomathematics & Ecology Education & Research, LaCrosse, Wisconsin, 2019.
- \*Slim, S. and **Slate, J.** “Examining the spread of disease with the susceptible-exposed-infected-recovered (SEIR) model.” Presented at the 13th Workshop on Math & Statistical Modeling, Northeastern Illinois University, 2018.
- \*Tiniakos, G., \*Shawkat, A., \*Adams, A., and **Slate, J.** “Morphological variation within freshwater sponges suggests potential for undescribed species.” Presented at the Midwest Ecology and Evolution Conference, Michigan State University, 2018.
- \*Ansari, N. and **Slate, J.** “Expanding knowledge of freshwater sponge taxonomy through mathematical analyses of megasclere spicules” Presented at the Midwest Ecology and Evolution Conference, Michigan State University, 2018.

\*NEIU undergraduate student, \*\*NEIU graduate student