

# Alex P. Martin

Lincoln, NE

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## EDUCATION

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### **Master of Arts (Research/Thesis) – 2022**

Evolution, Ecology, and Organismal Biology (Aquatic Ecology & Systematic Botany)  
University of Kansas, Lawrence, KS

### **Bachelor of Science – 2019**

Evolution, Ecology, and Organismal Biology  
University of Kansas, Lawrence, KS

### **Associate of Science – 2012**

Law Enforcement  
Century Technical College, White Bear Lake, MN

## EXPERIENCE

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**Jan 2025 – Present** – **Lab Manager**, University of Nebraska – Lincoln - School of Natural Resources

Limnology and aquatic ecology research.  
Supervisor: Dr. Jessica Corman

**May 2024 – Dec 2024** – **Agricultural Science Research Technician**, USDA - ARS

Switchgrass and Sorghum breeding for bio-fuel and forage research. DNA/RNA extractions, qPCR, germination studies, farm equipment operation.  
Supervisor: Scott Sattler

**Feb 2023 – April 2024** – **Freshwater Science Specialist**, The Nature Conservancy - NJ

Watershed-wide stream and floodplain monitoring, reforestation and stewardship, leading community engagement and volunteer events, macroinvertebrate collecting, stream health assessment using continuous instream monitoring equipment (HOBO loggers, Hach YSI multimeter), and data analysis using R, developing collaboration/partnerships with restoration and conservation organizations.  
Supervisor: Michelle DiBlasio

**Sept. 2022 – Dec. 2022** – **Research Assistant**, Phenotyping Eastern gamagrass (*Tripsacum dactyloides*)

Common garden plant management, tissue and phenotype data collection, collaboration with researchers at Donald Danforth Plant Science Center.  
Supervisor: Dr. Maggie Wagner, University of Kansas

**June 2021 – May 2022** – **Interim Greenhouse Manager**, University of Kansas Greenhouse

Teaching collection plant care, oversee undergraduate hourly students.

**Spring 2022** – **Internship: McGregor Herbarium (KANU)**, Biodiversity Institute & Natural History Museum

Dried specimen preparation, mounting, cataloging, digitization, databasing, loan processing.  
Supervisors: Caleb Morse & Craig Freeman, University of Kansas

- May 2020 – Sept. 2021** **Graduate Research Assistant**, Aquatic ecology, Marion Reservoir - KS  
Limnological profiles using discrete and continuous sampling methods (YSI probe, LiCOR, Fluoroprobe, Secchi, Van Dorn), deployment of high frequency sensors (miniDOT, HOBO loggers), sediment core incubation studies for assessment of internal phosphorus loading.  
Supervisor: Dr. Ted Harris, University of Kansas
- May 2019 – May 2020** **Research Lab Assistant/Lab Tech**, Floral evolution of *Penstemon* spp.  
Greenhouse plant care, plant propagation via cuttings, phenotype/floral trait data collection, bacterial colony PCR, gel electrophoresis, stable plant transformation and vacuum infiltration using *Agrobacteria*.  
Supervisor: Dr. Lena Hileman, University of Kansas
- Jan. 2018 – Dec. 2019** **Undergraduate Lab Assistant**, Population genetics of *Mimulus guttatus*  
DNA/RNA extractions, human-mediated pollination, plant tissue grinding, data collection.  
Supervisor: Dr. John Kelly, University of Kansas
- Summer 2019** **Field Research Assistant**, Aquatic fungi and algae sampling  
Field data collection of lentic waters, hand coring sediment samples, discrete and continuous data sampling.  
Supervisor: Dr. Ted Harris, University of Kansas
- Summer 2018** **Field Research Assistant**, Plant-microbe interactions, NSF project “Dimensions”  
Prairie plant identification, design and fabrication of field research infrastructure, plant husbandry.  
Supervisor: Dr. James Bever, University of Kansas
- 2013 – 2017** **Patrol Officer, Court Security**, Hennepin County Security Division, Minneapolis, MN  
Crisis Intervention, emergency medical response, report writing, creating and implementing a county bike-lock program to help the community of bicyclists.  
Supervisor: Lt. Rodney Michael

## TEACHING EXPERIENCE

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- Fall 2021** **Graduate Teaching Assistant**, Biology 415 – Field and Laboratory Methods in Ecology  
Taught methodologies for quantitative sampling of terrestrial and aquatic systems, design of field studies, computer simulation and digital data analysis techniques, scientific writing, and poster presentations.  
Supervisors: Dr. Ben Sikes & Dr. Dan Reuman, University of Kansas
- Fall 2020 – Spring 2022** **Graduate Teaching Assistant**, Biology 102 – Principles of Biology Laboratory  
Supervisor: Dr. Laura Rozzi, University of Kansas

## PUBLICATIONS

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- 2023** **Martin, A.P.**, Mort M.E. (2023). *Vallisneria* (Hydrocharitaceae): novel species, taxonomic revisions, and hybridization. *Aquatic Botany*. <https://doi.org/10.1016/j.aquabot.2023.103669>
- 2022** **Martin, A.P.** (2022). *Vallisneria australis* S.W.L. Jacobs & Les. *The Aquatic Gardener*, 35(3), 36-40.

## PRESENTATIONS, CONFERENCES, AND MEETINGS

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- 2024**      **Martin, A.P.** (2024). *Vallisneria* (Hydrocharitaceae): species diversity and restoration practices. Northeast Aquatic Plant Management Society. Invited speaker. January 11<sup>th</sup>.
- Martin, A.P.** (2024). *Vallisneria* (Hydrocharitaceae): species diversity and restoration practices. Northeast Aquatic Plant Management Society Winter Webinar. January 17<sup>th</sup>.
- 2023**      **Martin, A.P.** (2023). *Vallisneria* (Hydrocharitaceae): novel species, taxonomic revisions, and hybridization. San Francisco Aquarium Society & Sacramento Aquarium Society. Invited speaker. August 4<sup>th</sup> and 5<sup>th</sup>.
- Martin, A.P.** (2023). Paulins Kill River: data collection and analysis. Delaware River Watershed Initiative Gathering, Blue Bell, Pennsylvania. Invited speaker. June 7<sup>th</sup>.
- 2022**      **Martin, A.P.** (2022). New insights for the systematics and taxonomy of *Vallisneria* (Hydrocharitaceae). Aquatic Gardeners Association Convention, Chicago, Illinois. Invited speaker. September 30<sup>th</sup>.
- 2021**      **Martin, A.P.**, Harris, T.D., Baker, D., Huggins, D., Kastens, J., Willis, N., Bohnsack, B. (2021). Internal phosphorus loading in Marion Reservoir, Kansas: a sediment core incubation study. Governor's Conference on the Future of Water in Kansas. Virtual. November 18<sup>th</sup>. (poster).  
**Runner-up Best Graduate Student Poster**
- Harris, T.D., Moody, J., Baker, D., Kniola, K., Kessler, R., **Martin, A.P.**, Kastens, J. (2021). Past, present, and future blue-green algal blooms in Kansas. Governor's Conference on the Future of Water in Kansas. Virtual. November 18<sup>th</sup>.
- Martin, A.P.**, Harris, T.D., Baker, D., Huggins, D., Kastens, J., Willis, N., Bohnsack, B. (2021). Internal phosphorus loading in Marion Reservoir, Kansas: a sediment core incubation study. Kansas Natural Resources Conference. Virtual. January 28<sup>th</sup>. (poster). **Best Student Poster**
- 2020**      Hosseini, A., Roundy, J., Baker, D., **Martin, A.P.**, Harris, T.D. (2020). High-frequency temperature and dissolved oxygen monitoring of a discontinuous polymictic reservoir in the Midwestern USA. Global Lakes Ecological Observatory Network G21.5 Meeting. October 19<sup>th</sup>.

## AWARDS, SCHOLARSHIPS

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- 2022**      Eugenie S. Polson Scholarship, University of Kansas (\$6650)
- 2021**      Fratcher Botany Fellowship Scholarship, University of Kansas (\$750)  
              Runner-up Best Graduate Student Poster, Governor's Conference on the Future of Water in Kansas, November (\$125)  
              Best Student Poster, Kansas Natural Resources Conference, January

## PEER REVIEW

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- 2024**      Gebhart, M.G., et al. (2024). Invasive Eelgrass Hybrid, *Vallisneria* × *pseudorosulata* in the Southeastern United States. *Invasive Plant Science and Management*.
- Jiang, L., et al. (2024). *Vallisneria branasolumensis* New Species (Hydrocharitaceae), a New Species from Southern Anhui, China. *Phytotaxa*.

Molecular Phylogenetic Analysis of *Vallisneria spiralis* Linnaeus in Kanyakumari, Tamil Nadu, India. The Open Bioinformatics Journal.