Nicole L. Kinlock

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Education

2013–present Stony Brook University, Stony Brook, NY
Ph.D. candidate, Department of Ecology & Evolution
Advisor: Dr. Jessica Gurevitch

2009–2013 Rochester Institute of Technology, Rochester, NY
Bachelor of Science in Biology, *summa cum laude*

Selected Research Experience

2017–present **Applied Biomathematics, Inc.**
Research Associate (Supervisors: Drs. Lev Ginzburg and Nicholas Friedenberg)
Consulting on population/community modeling and ecological risk assessment projects to inform conservation. Collaborations with US Army Corps of Engineers and Electric Power Research Institute.

2018–present **Stony Brook University**, Department of Ecology & Evolution
Graduate Research Assistant (Advisors: Drs. Ross Nehm and Gena Sbeglia)
Developing teaching and assessment materials for undergraduate biology students in accordance with the AAAS Vision and Change Undergraduate Biology Education Initiative.

2017–2018 **Brookhaven National Laboratory**, Environmental & Climate Sciences Department
Research Assistant (Advisor: Dr. Alistair Rogers)
Plant physiology laboratory work analyzing elemental content of leaf samples.

Publications

2020 **Kinlock, NL**, AJ Laybourn, CE Murphy, JJ Hoover, and NA Friedenberg. Modelling bioenergetic and population-level impacts of invasive bigheaded carps (*Hypophthalmichthys* spp.) on native paddlefish (*Polyodon spathula*) in backwaters of the lower Mississippi River. *Freshwater Biology*. [DOI]

2020 Kattge, J, G Bönisch, S Díaz, S Lavorel, IC Prentice, ..., **NL Kinlock**, ... (729 coauthors). TRY plant trait database—enhanced coverage and open access. *Global Change Biology*, 26: 119–188. [DOI]

2019 **Kinlock, NL**. A meta-analysis of plant interaction networks reveals competitive hierarchies as well as facilitation and intransitivity. *The American Naturalist*, 194(5): 640–653.

[DOI]

2019 **Kinlock, NL**, L Prowant, EM Herstoff, CM Foley, M Akin-Fajiye, N Bender, M Umarani, HY Ryu, B Şen, and J Gurevitch. Open science and meta-analysis allow for rapid advances in ecology: A response to Menegotto et al. (2019). *Global Ecology and Biogeography*, 28(10): 1533–1534. [DOI]

2019 Beckmann, M, K Gerstner, M Akin-Fajiye, S Ceaușu, S Kambach, **NL Kinlock**, HRP Phillips, W Verhagen, J Gurevitch, S Klotz, T Newbold, PH Verburg, M Winter, and R Seppelt. Conventional land-use intensification reduces species richness and increases production: A global meta-analysis. *Global Change Biology*, 25(6): 1941–1956. [DOI]

2019 Peng, S, **NL Kinlock**, J Gurevitch, and S Peng. Correlation of native and exotic species richness: a global meta-analysis finds no invasion paradox across scales. *Ecology*, 100(1): e02552. [DOI]

2018 **Kinlock, NL**, L Prowant, EM Herstoff, CM Foley, M Akin-Fajiye, N Bender, M Umarani, HY Ryu, B Şen, and J Gurevitch. Explaining global variation in the latitudinal diversity gradient: Meta-analysis confirms known patterns and uncovers new ones. *Global Ecology and Biogeography*, 27: 125–141. [DOI]

2015 **Kinlock, NL**, BY Schindler, and J Gurevitch. Biological invasions in the context of green roofs. *Israel Journal of Ecology and Evolution*, 62(1-2): 32–43. [DOI]

Teaching and Mentorship

Instructor

Stony Brook University

2019 Biometry, **graduate level course** on statistics for Masters and Ph.D. students

2018 Plant Ecology, guest lecturer for one month

2017, 2016 Introduction to R, two-day workshop for graduate students

Teaching Assistant

Stony Brook University

2019, 2016, 2014 Fundamentals of Biology: Organisms to Ecosystems

2018 Ecology

2017, 2016 Biometry

2015 Landscape Ecology Laboratory

2015 Plant Diversity

2014 Applied Ecology and Conservation Biology Laboratory

2013 Fundamentals of Scientific Inquiry in the Biological Sciences I

Undergraduate Mentor

2017 Zambuto, MA, **NL Kinlock**, and J Gurevitch. "Comparing Intra- and Interspecific Competition of Spotted Knapweed and Orchardgrass." Undergraduate Research and Creative Activities Research Symposium. Stony Brook, NY. (Mentored student poster presentation)

Honors and Awards

2020 Best Teaching Assistant Award, Department of Ecology & Evolution, Stony Brook University
2017 Lawrence B. Slobodkin Award for Research in Ecology (**$550**)
2015 Lawrence B. Slobodkin Award for Research in Ecology (**$750**)
2014 Tinker Foundation Field Research Grant (**$1,997**)
2014 Departmental Excellence Research Award (**$1,000**)
2013 Graduate Council Fellowship, Stony Brook University (**$125,000**) *Awarded annually to ten incoming doctoral students at Stony Brook University.*
2013 Recruitment Fellowship, Stony Brook University (**$2000**)
2013 John Wiley Jones Award for Outstanding Students in Science (**$250**)
2013 Research Scholars Program Award

Professional Service

Reviewer for *Ecology Letters*, *Nature Ecology & Evolution*, *Nature Plants*, *Scientific Reports*, *Journal of Biogeography*, *PLOS ONE*, *Ecology and Evolution*, *Ecosphere*, and *Israel Journal of Ecology and Evolution*.
Member of the Ecological Society of America and the American Society of Naturalists

Presentations

2019 **Kinlock, NL**. "Invasive plants in the northeast U.S.: Combining natural history and ecology." Friends of the Long Pond Greenbelt Sunday Talks Series, Bridgehampton, N.Y. (Public talk)
2018 **Kinlock, NL** and J Gurevitch. "Invasive status does not dictate community-level interactions in an interaction network of woody plants." Ecological Society of America Annual Meeting, New Orleans, L.A. (Poster)
2017 **Kinlock, NL** and J Gurevitch. "Experimental determination of an invaded old field plant interaction network." Early Career Researcher Symposium, Brookhaven National Laboratory, Upton, NY. (Poster)
2017 **Kinlock, NL** and J Gurevitch. "Characterizing the structure of plant interaction networks." Ecological Society of America Annual Meeting, Portland, O.R. (Poster)

2017 **Kinlock, NL**. "A meta-analysis of network structure in plant-plant interaction communities." Society for Research Synthesis Methodology Annual Meeting, Montreal, Q.C. (Oral presentation)

2017 **Kinlock, NL**. "Community structure of an invaded old field plant interaction network." Yale-Myers Summer Seminar Series, Eastford, C.T. (Public talk)

2017 **Kinlock, NL**. "Characterizing the structure of plant interaction networks." Department of Ecology & Evolution Retreat, Stony Brook, NY. (Oral presentation)

2013 **Kinlock, NL** and AC Tyler. "Does the history of small, urban and suburban wetlands influence the biodiversity of aquatic invertebrate communities?" College of Science Seminar at RIT, Rochester, NY. (Oral presentation)

2012 **Kinlock, NL** and AC Tyler. "Analyzing the effectiveness and efficiency of different methods for invasive *Typha* spp. removal in created wetlands." Summer Undergraduate Research Symposium at RIT, Rochester, NY. (Oral presentation)

2011 **Kinlock, NL**, S Loftus, N Marshall, J Skufca, and M Twiss. "Comparison of plankton dynamics in nearshore and main channel areas of the St. Lawrence River." Summer Symposium on Undergraduate Research Experiences at Clarkson University, Potsdam, NY. (Oral presentation)

Additional Experience

2014 **Tropical Plant Systematics**, Organization for Tropical Studies, Costa Rica
Five-week graduate course on the phylogeny and identification of neotropical plants with a research component.

2013–2014 **Improvisation for Scientists**, Alan Alda Center for Communicating Science, Stony Brook University
Weekly workshop to improve communication skills, tailored to scientists.

2012–2013 **Research Scholar**, RIT (Advisor: Dr. A. Christy Tyler)
Undergraduate thesis characterizing aquatic macroinvertebrate communities in small urban and suburban wetlands.

2012 **Undergraduate Liaison**, RIT in assoc. with the Great Lakes Innovative Stewardship Through Education Network (Advisors: Drs. A. Christy Tyler and John Waud)
Designed and conducted wetland mitigation, invasive species management, and community outreach projects.

2011 **Summer Research Fellow**, Research Experience for Undergraduates Program, Clarkson University (Advisor: Dr. Michael Twiss)
Assessed plankton dynamics in the St. Lawrence River in support of a two-dimensional ecosystem model.

Skills

Programming languages R, C++, Bash, JAGS, LaTeX
High performance cluster computing
Git (GitHub/nlkinlock)