

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*

Publications

- in press* **Kinlock, NL** A meta-analysis of plant interaction networks reveals competitive hierarchies as well as facilitation and intransitivity. *The American Naturalist*.
- 2019 Beckmann, M, K Gerstner, M Akin-Fajiye, S Ceaşu, 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*, 00: 1–16.
- 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), p.e02552.
- 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.
- 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.

Research Experience

- 2017–present **Applied Biomathematics, Inc.**
Research Associate
Leading projects on the population and community ecology of species of interest to inform conservation.
- 2017–2018 **Brookhaven National Laboratory**, Environmental & Climate Sciences Department
Research Assistant (Advisor: Dr. Alistair Rogers)

- Analyzed the elemental content of leaf samples from the Arctic and tropics.
- 2018 **Stony Brook University**, Department of Ecology & Evolution
Graduate Research Assistant (Advisor: Dr. Ross Nehm)
Developed assessment materials for undergraduate biology students to measure prior knowledge and learning about matter and energy movement and transformation.
- 2012 **Rochester Institute of Technology** in assoc. with the Great Lakes Innovative Stewardship Through Education Network
Undergraduate Liaison (Advisors: Drs. A. Christy Tyler and John Waud)
Designed and conducted wetland mitigation, invasive species management, and community outreach projects.
- 2011 **Clarkson University**, Research Experience for Undergraduates Program
Summer Research Fellow (Advisor: Dr. Michael Twiss)
Measured plankton dynamics in the St. Lawrence River in support of a two-dimensional ecosystem model.

Presentations

- 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 Sym-

posium on Undergraduate Research Experiences at Clarkson University, Potsdam, NY.
(Oral presentation)

Teaching and Mentorship

INSTRUCTOR

Stony Brook University

- 2019 Biometry **graduate level course**
- 2018 Plant Ecology (guest lecturer for one month)
- 2017, 2016 Introduction to R (two-day workshop)

TEACHING ASSISTANT

Stony Brook University

- 2018 Ecology
- 2017, 2016 Biometry **graduate level course**
- 2016, 2014 Fundamentals of Biology: Organisms to Ecosystems
- 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, M.A., **Kinlock, NL**, Gurevitch, J. "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

- 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*, *Scientific Reports*, *Journal of Biogeography*, *Ecology and Evolution*, *Ecosphere*, and *Israel Journal of Ecology and Evolution*.

Member of the Ecological Society of America

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 Scholars Program**, Rochester Institute of Technology (Advisor: Dr. A. Christy Tyler)

Researched and wrote an undergraduate thesis: characterizing aquatic macroinvertebrate communities in small urban and suburban wetlands.

Skills

Programming languages R, Python, C++, bash, JAGS, \LaTeX

High performance cluster computing

Git (GitHub/nlkinlock)

Proficient in French