

NICHOLAS L. ANDERSON

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PROFESSIONAL APPOINTMENTS

2021-present Postdoctoral Research Associate, University of Illinois Urbana-Champaign (UIUC)
2021 Instructor of Record, IB361 Ecology and Human Health, UIUC

EDUCATION

2021 Ph.D. Entomology, UIUC
2017 M.S. Entomology, UIUC
2014 B.S. Biological Sciences, University of Notre Dame, *Magna cum laude*

RESEARCH FUNDING

2021 Isabel Norton Award, School of Integrative Biology, UIUC, \$1,000
2020-21 Dissertation Completion Fellowship, Graduate College, UIUC, \$56,930
2020 Francis M. and Harlie M. Clark Summer Fellowship, School of Integrative Biology, UIUC, \$5,000
2020 Spring Award, Department of Entomology, UIUC, \$3,465
2018 & 19 Harley J. Van Cleave Research Award, School of Integrative Biology, UIUC, \$2,000 total
2017-19 GAANN fellowship, School of Integrative Biology, UIUC, \$167,805
2017-19 Dissertation Travel Grant, Graduate College, UIUC, \$3,938.90
2017 & 20 Conference Travel Award, Graduate College, UIUC, \$320 total
2015 & 17 Francis M. and Harlie M. Clark Research Support Grant, School of Integrative Biology, UIUC (Maximum number of times awarded), \$1,750 total
2016 Fred H. Schmidt Summer Scholars Award, Department of Entomology, UIUC, \$2,500
2016 Lebus Fund Award, School of Integrative Biology, UIUC, \$1,000
2014 GSAC Summer Fellowship, Department of Entomology, UIUC, \$1,000

REFEREED PUBLICATIONS

Published and in press

Anderson, N. and A. Harmon-Threatt. 2021. Chronic contact with imidacloprid during immature development may decrease female foraging ability and increase male competitive ability for mates in adult solitary bees. *Chemosphere* 283. [[Link](#)]

- Grommes, A.,[†] A. Harmon-Threatt, and **N. Anderson**. 2021. Adding essential oils to emergence tents has taxon-specific effects on trapping efficiency of ground-nesting bees. *Apidologie*, 52:378-387. [[Link](#)]
- Anderson, N.**, K. Barrett, S. Jones, and G. Belovsky. 2020. Impact of abiotic factors on microbialite growth (Great Salt Lake, Utah, USA): A tank experiment. *Hydrobiologia*, 847:9 [[Link](#)]
- Anderson, N.** and A. Harmon-Threatt. 2019. Chronic contact exposure with realistic soil concentrations of imidacloprid affects the mass, immature development speed, and adult longevity of solitary bees. *Scientific Reports*, 9:3724. [[Link](#)]
- Anderson, N.** and A. Harmon-Threatt. 2016. 07. The effects of floral diversity on soil conditions and nesting of bees. *North American Prairie Conference Proceedings*, 17. [[Link](#)]

In preparation and revision

- Anderson, N.** and A. Harmon-Threatt. *In Prep.* The reintroduction of a top predator results in a trophic cascade that helps shape bee communities.
- Anderson, N.**, B. Chiavini,[†] and A. Harmon-Threatt. *In Prep.* The role of patch shape in insect movement across habitat edges.
- Chiavini, B.,[†] A. Harmon-Threatt, and **N. Anderson**. *In Prep.* Changes in pollinator foraging behavior in response to neonicotinoids and floral quality: A field study.
- Harmon, G.,[†] A. Harmon-Threatt, and **N. Anderson**. *In Prep.* Trophic effects of neonicotinoid and fungicide contamination on insect communities.
- Macalindong,[†] J., A. Harmon-Threatt, and **N. Anderson**. *In Prep.* Changes in soil organic carbon alter plant rewards and pollinator risk-aversion while foraging.
- Barie, K., **N. Anderson**, and A. Harmon-Threatt. *In Prep.* Factors influencing the distribution of bees in forested habitats.
- Leonard, R., **N. Anderson**, and A. Harmon-Threatt. *In revision.* Wing asymmetry in response to chronic contact with realistic soil concentrations of imidacloprid in solitary bees.

[†] Undergraduate co-author

AWARDS AND RECOGNITION

- 2021 Award for Excellence in Undergraduate Teaching by a Graduate Teaching Assistant, College of Liberal Arts & Sciences, UIUC
- 2020 Les Real and Jim Brown Student Travel Award. Ecological Society of America Student Section.
- 2019 Ellis MacLeod/DuPont Award for Outstanding Teaching by a Graduate Student in the Department of Entomology, UIUC
- 2019 Sharon Gray Memorial Award, co-awardee: Anna Grommes (awarded to mentor-mentee research pair), School of Integrative Biology, UIUC
- 2018 John G. and Evelyn Hartman Heiligenstein Outstanding Teaching Assistant, School of Integrative Biology, UIUC
- 2016 Second place, Student Poster Award, 24th North American Prairie Conference, Illinois

State University, Normal, IL

- 2015 NSF-GRFP Honorable Mention
2015 Elected a member of Phi Kappa Phi, UIUC

MENTORSHIP

- 2014-22 Mentor, Illinois P-20 Council's Mentor Matching Engine – 20 high school students total in 11 student-driven research projects
2015-21 Undergraduate students mentored - 10 total, UIUC: Alexander Pane (January 2015 - October 2015), Kapil Thacker (February 2016 - May 2018), Delaney Demro (October 2016 - December 2016), Paul Ruiz-Lopez (May 2017 - July 2017), Benjamin Chiavini (January 2018 - **present**), Anna Grommes (September 2018 - May 2020), Perla Magana (September 2018 - May 2019), Gabe Harmon (August 2019 - **present**), Justine MacAlindong (January 2020 - **present**), Kristine Schoenecker (May 2021 - **present**)
2017-18 Mentor, School of Integrative Biology Merit Fellows Program, UIUC: Elise Snyder

RESEARCH FUNDING AWARDED TO MENTORED STUDENTS

Justine Macalindong

- 2020 Research Support Grant, Office of Undergraduate Research, UIUC, \$2,000
2020 Bee Researcher Undergrad Award, School of Integrative Biology, UIUC, \$1,000

Gabe Harmon

- 2020 Research Support Grant, Office of Undergraduate Research, UIUC, \$2,000
2020 iBio Summer Internship, School of Integrative Biology, UIUC, \$6,000

Benjamin Chiavini

- 2020 Research Support Grant, Office of Undergraduate Research, UIUC, \$2,000
2019 James Scholar Preble Research Award, UIUC, \$1,000

Anna Grommes

- 2020 Entomology Undergrad Research Award, Department of Entomology, UIUC, \$1,000
2019 Research Support Grant, Office of Undergraduate Research, UIUC, \$1,988
2019 Richard Ware Family Scholarship, School of Integrative Biology, UIUC, \$1,500

TEACHING EXPERIENCE

University of Illinois Urbana-Champaign

- IB 361 Ecology and Human Health, **Instructor of Record** (120 students), Spring 2021*; **Guest Lecturer**, Spring 2019[^]; **Teaching Assistant**, Spring 2019*
IB 299 Merit Ecology (special discussion section for IB 203), **Teaching Assistant**, Fall 2018*
IB 203 Ecology, **Lecture Teaching Assistant**, Fall 2018[^]; **Lab Teaching Assistant**, Fall 2019*
IB 202 Anatomy & Physiology, **Teaching Assistant**, Spring 2016*
IB 150 Organismal and Evolutionary Biology, **Teaching Assistant**, Spring 2015*

IB 104 Animal Biology, **Guest Lecturer** (2 lectures), Fall 2016[^]; **Laboratory Coordinator**, Fall 2016[^]; **Teaching Assistant**, Falls 2014, 2015[#], and 2016*

*Listed as "Excellent" by students (top 30% of instructors); #Listed as "Outstanding" by students (top 10% of instructors);

[^]Not evaluated by students

PEDAGOGICAL TRAINING

- 2019 Science Communication Workshop led by Sandra Tsing Loh, Beckman Institute for Advanced Science and Technology, UIUC
- 2018 Graduate Teacher Certificate, Center for Innovation in Teaching and Learning (CITL), UIUC
- 2016 & 18 Microteaching facilitator, Graduate Academy for College Teaching, CITL, UIUC
- 2017 TA Reading Group, CITL, UIUC
- 2015 Panel Member, School of Integrative Biology TA Q & A Session, Graduate Academy for College Teaching, CITL, UIUC

OUTREACH

- 2016-22 Scientist letter writer, Letters to a Pre-Scientist – 5 students total (Grades 4, 5, 7, and 8); Award for "Excellent Explanations" in 2020-21
- 2014-21 Insect Fear Film Festival, UIUC: Art contest co-chair ('16 - '20); art judge ('15 - '20); insect zoo volunteer ('14 - '16, '19); informational booth ('17 - '19); virtual session moderator ('21)
- 2021 Panel Member, Applying to Grad School and the Graduate Experience, UIUC
- 2014-18 Volunteer, Pollinarium, Department of Entomology, UIUC
- 2017 Insect table volunteer, Leal Elementary Science Night
- 2016 Insect tent volunteer, Allerton Family Campout & Exploration, UIUC
- 2015 Volunteer, Girls Explore Biology Summer Day Camp, School of Integrative Biology, UIUC
- 2015 Entomology Outreach Volunteer, Unity East Elementary School

LEADERSHIP POSITIONS

- 2016-20 Art contest co-chair, Insect Fear Film Festival, UIUC
- 2018-20 Webmaster, Entomology Graduate Student Association, UIUC
- 2017-19 Graduate student representative, LAS Awards Committee, UIUC
- 2017-18 Graduate Student Advisory Committee Representative, Entomology Graduate Student Association, UIUC
- 2014-17 Faculty Liaison, Entomology Graduate Student Association, UIUC

MANUSCRIPTS REVIEWED

I have reviewed manuscripts for: *Scientific Reports*, *Insect Conservation and Diversity*, *Environmental Entomology*, *Ecotoxicology and Environmental Safety*, *The Great Lakes Entomologist*, and *North American Prairie Conference Proceedings*

ORGANIZED SYMPOSIA

Anderson, N., C. Clem, and J. Tetlie. "Callows" and "Pre-Imaginal" Professionals of Pollination Research. P-IE Section Symposium. Entomological Society of America 2019, St. Louis, MO.

ORAL PRESENTATIONS

Anderson, N., B. Chiavini, and A. Harmon-Threatt. Taxa-specific responses to habitat patch characteristics for insect movement and persistence within a fragmented landscape. Entomological Society of America 2021, Virtual. *upcoming*

Anderson, N., B. Chiavini, and A. Harmon-Threatt. The role of patch characteristics in insect persistence and movement in fragmented landscapes. Ecological Society of America 2021, Virtual.

Anderson, N. and A. Harmon-Threatt. The reintroduction and conservation of a charismatic lizard in a patchy, endemic habitat helps to structure native bee communities. Illini Wildlife and Conservation Club 2020, Virtual; *invited talk*

Anderson, N. and A. Harmon-Threatt. A top-down trophic cascade structures native bee communities in a highly fragmented, endemic habitat. Entomological Society of America 2020, Virtual.

Anderson, N. and A. Harmon-Threatt. Native bee communities are structured by top-down factors in a highly fragmented, endemic habitat. Ecological Society of America 2020, Virtual.

Anderson, N. and A. Harmon-Threatt. Bee species-area relationships (SARs) are weakened by the reintroduction of a vertebrate top predator in a highly fragmented, endemic habitat. Entomological Society of America 2019, St. Louis, MO

Anderson, N. and A. Harmon-Threatt. Species-area relationships are changed by reintroducing a top predator to a highly fragmented, endemic habitat. Ecological Society of America 2019, Louisville, KY

Anderson, N. and A. Harmon-Threatt. The strength of species-area relationships is modulated by conservation efforts in a highly fragmented, endemic habitat. Ecological Society of America 2018, New Orleans, LA

Anderson, N. and A. Harmon-Threatt. Chronic contact exposure to realistic soil concentrations of a neonicotinoid pesticide during development has important sublethal effects on solitary bees. Midwest Ecology and Evolution Conference 2017, Urbana, IL

Anderson, N. and A. Harmon-Threatt. Assessing the soil legacy of insecticides: Are we creating ecological traps for ground-nesting bees? Entomological Society of America 2015, Minneapolis, MN; *invited talk*

POSTER PRESENTATIONS

Anderson, N.L. and A.N. Harmon-Threatt. Chronic contact exposure to realistic soil concentrations of a neonicotinoid pesticide during development has important sublethal effects on solitary bees. GEEB Graduate Symposium 2018, Urbana, IL

Anderson, N.L. and A.N. Harmon-Threatt. Chronic contact exposure to realistic soil concentrations of a neonicotinoid pesticide during development has important sublethal effects on solitary bees.

Entomological Society of America 2018, Denver, CO

Anderson, N.L. and A.N. Harmon-Threatt. Increased seed mix diversity in a prairie restoration changes abiotic factors implicated in nest-site selection by ground-nesting bees. North American Prairie Conference 2016, Normal, IL

Anderson, N. L., A. N. Laws, and G. E. Belovsky. The effects of a parasitic mite—*Ectrombidum locustorum*—on the competitive interactions of two pest grasshopper species—*Melanoplus sanguinipes* and *Ageneotettix deorum*. University of Notre Dame 2014 College of Science Joint Annual Meeting, Notre Dame, IN

Anderson, N. L., A. N. Laws, and G. E. Belovsky. The effects of a parasitic mite—*Ectrombidum locustorum*—on the competitive interactions of two pest grasshopper species—*Melanoplus sanguinipes* and *Ageneotettix deorum*. University of Notre Dame 2013 Fall Undergraduate Research Fair, Notre Dame, IN

Anderson, N. L. and S. A. Sura. Predicting the effectiveness of chemical defenses based on the physical defenses of three gastropods in the presence of two crayfish predators. University of Notre Dame 2013 College of Science Joint Annual Meeting, Notre Dame, IN

Anderson, N. L. and S. A. Sura. Predicting the effectiveness of chemical defenses based on the physical defenses of three gastropods in the presence of two crayfish predators. Midwest Ecology and Evolution Conference 2013, University of Notre Dame, IN

Anderson, N. L. and S. A. Sura. Predicting the effectiveness of chemical defenses based on the physical defenses of three gastropods in the presence of two crayfish predators. University of Notre Dame 2012 Fall Undergraduate Research Symposium, Notre Dame, IN

NON-REFEREED PUBLICATIONS (News articles, extension publications, etc.)

Anderson, N., S. Halsey, T. Johnson, T. Josek, and E. Welsh. 2019. Environmental Almanac: The world has a place for pesky blood suckers. Ed. R. Kanter. *The News-Gazette*. Champaign, IL, USA. [[Link](#)]

Kershisnik, K., **N. Anderson,** and J. McLaren. 2012. The ecology of the University of Notre Dame and its effects on student life. *Scientia*, 3:20-26. [[Link](#)]