

Brian R. Haney

*University of Mount Saint Vincent
Division of Natural Science
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Education

- Ph.D. Animal Behavior** August 2011 - December 2017
Arizona State University, School of Life Science, Tempe, Arizona
Dissertation: “Ecological Drivers and Reproductive Consequences of Queen Cooperation in the California Harvester Ant *Pogonomyrmex californicus*.”
Advisor: Dr. Jennifer H. Fewell
- B.S. in Biology with Honors**, Minor in Environmental Studies. 2004 - 2008
Trinity University, San Antonio, Texas.
Thesis: “Sexual Conflict in the Fiddler Crab *Uca princeps*”
Advisor: Dr. Denise Pope
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Employment History

- University of Mount Saint Vincent** 2019 – present
Associate professor, Tenure granted June 2025
Division of Natural Science
- Stonehill College** 2017 - 2019
Post-Doctoral Teaching and Research Fellow, Bleakley Lab
- Arizona State University Graduate Partners in Science Education** 2013 - 2015
Director of program
- Texas A&M Institute of Renewable Natural Resources** 2010
Biological Field Technician
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Teaching Experience at Undergraduate Level

Courses Taught as Primary Instructor:

University of Mount Saint Vincent:

- | | |
|--------------------------|--------------------------------------|
| General Biology II + Lab | Spring 20; Summer 20, 21, 22, 23, 24 |
| Ecology + Lab | Fall 19, 20, 21, 22, 23, 24, 25 |
| Animal Behavior + Lab | Spring 21, 23 |
| Environmental Biology | Spring 20, 21, 22, 23, 24 |
| It's a Bugs Life | Spring 22, 23; Fall 25 |

Stonehill College:
Biological Principles II
Biological Principles I

Spring 18
Fall 17

Graduate Lecture Teaching Assistant:

Arizona State University:

Comparative Invertebrate Zoology

Spring 16

Animal Physiology

Fall 2015 & Fall 16

Animal Behavior

Spring 13

Graduate Primary Lab Instructor:

Arizona State University:

Comparative Invertebrate Zoology Lab

Spring 16

Animal Physiology Lab

Spring 15, Fall 12 & 11

General Biology 2 Lab

Spring 12

Awards and Funding

USMV Project Mount Faculty Fellowship Award, 2024

ASU SOLS PhD Completion Fellowship, 2017

IUSSI Tschinkel Ant Natural History Research Grant, 2016

NSF Doctoral Dissertation Improvement Grant, 2015

Animal Behavior Society Student Research Grant, 2015

ASU RTI Graduate Field Work Grant, 2015

ASU RTI Graduate Training Grant, 2015

GPSA Graduate Research Support Grant, 2014

ASU SOLS Graduate Travel Award, 2014

ASU SOLS Graduate Research Scholarship, Summer 2014

ASU RTI Graduate Field Work Grant, 2014

NAS/IUSSI Graduate Travel Award, 2013

ASU SOLS Graduate Research Scholarship, Summer 2013

Sigma Xi Grants-in-Aid of Research Recipient, 2013

NSF Graduate Research Fellowship, Honorable Mention, 2012

ASU SOLS Graduate Research Scholarship, Summer 2012

Graduated with departmental honors, Trinity University, 2008

Member of National Society of Collegiate Scholars, 2005

Service

UMSV Committee membership:

Faculty Senate:

Fall 2024-present

Excellence in Teaching:

Fall 2020-present

Institutional Outcomes and Assessment:

Fall 2020-present

Publications

Haney, B. An Authentic Demonstration of the Mark–Recapture Technique Using Ant Colonies. *The American Biology Teacher*, 85(7), 398-401. (2023).

Haney, B. R., Gadau, J., & Fewell, J. H. Annual fitness costs may be balanced by a conservative life history strategy in groups of unrelated ant queens. *Behavioral Ecology and Sociobiology*, 77(7), 75. (2023).

Baudier, K. M., Ostwald, M. M., **Haney, B. R.**, Calixto, J. M., Cossio, F. J., & Fewell, J. H. Social Factors in Heat Survival: Multiqueen Desert Ant Colonies Have Higher and More Uniform Heat Tolerance. *Physiological and Biochemical Zoology*, 95(5), 379-389. (2022).

Ostwald, M. M., **Haney, B. R.**, & Fewell, J. H. Ecological drivers of non-kin cooperation in the Hymenoptera. *Frontiers in Ecology and Evolution*, 19. (2022).

Haney, B. R., & Fewell, J. H. Ecological drivers and reproductive consequences of non-kin cooperation by ant queens. *Oecologia*, 187(3), 643-655. (2018).

Haney, B.R. Ecological Drivers and Reproductive Consequences of Queen Cooperation in the California Harvester Ant *Pogonomyrmex Californicus*. Ph.D. Dissertation, Arizona State University (2017).

Cooper, K.M., **Haney, B.**, Krieg, A., & Brownell, S. E. What's in a Name? The Importance of Students Perceiving That an Instructor Knows Their Names in a High-Enrollment Biology Classroom. *CBE-Life Sciences Education*, 16(1), ar8. (2017).

Shaffer, Z., Sasaki, T., **Haney, B.**, Janssen, J., Pratt, S.C., Fewell, J.H. The foundress's dilemma: group selection for cooperation among queens of the harvester ant, *Pogonomyrmex californicus*. *Scientific Reports*, 6, 29828 (2016).

Pope, Denise S., **Haney, B.** "Interspecific signalling competition between two hood-building fiddler crab species, *Uca latimanus* and *U. musica musica*." *Animal Behaviour*, 76.6. 2037-048. (2008)

Presentations

Medina, I., Naranjo, I., Pannullo, P., Kwakumey, Z., and Haney, B.R. (2024). Salt in the City: Does Deicing Salt Application Cause Micro-Invertebrate Mortality in Roadside Soil? Poster presented at BetaBetaBeta Biological Honors Society Research Conference.

Diaz, J., and Haney, B.R. (2022). NYC Pollinator Project: A Template for Surveying Pollinators in Urban Environments. Poster presented at Westchester Undergraduate Research Conference.

Gent, J., Solano, A., and Haney, B.R. (2022) Winter Ant (*Prenolepis imparis*) Thermotolerance Across Seasons in an Urban Population. Poster presented at Westchester Undergraduate Research Conference.

Pipinos, E., Medina-Ocasio, K., and Haney B.R. (2022) Life on the Rocks: Determining Salt Tolerance in Soil Invertebrates. Poster presented at Westchester Undergraduate Research Conference.

Abumalouh, R., Brahman, D., and Haney, B.R. (2021). Can You Judge a Bug by its Cover? Exploring Possible Links Between Pigment Pattern and Navigational Traits in the Pill-Bug. Poster presented at Westchester Undergraduate Research Conference.

Blumenberg, K., Marshall, J., and Haney, B.R. (2021). Investigating Thermal Plasticity in the Winter Ant, *Prenolepis imparis*. Poster presented at Westchester Undergraduate Research Conference.

Haney, Brian R. and Jennifer H. Fewell (2017). The evolution and reproductive consequences of queen cooperation in a harvester ant. Paper presented at Animal Behavior Society meeting.

Haney, Brian R. and Jennifer H. Fewell (2016). The evolution and reproductive consequences of queen cooperation in a harvester ant. Paper presented at International Congress of Entomology meeting.

Haney, Brian R. and Jennifer H. Fewell (2016). Evidence of cheating in cooperative groups of harvester ant queens. Paper presented at International Union for the Study of Social Insects meeting.

Haney, Brian R. and Jennifer H. Fewell (2015). The evolution and reproductive consequences of queen cooperation in a harvester ant. Paper presented at Society for Integrative and Comparative Biology Meeting.

Haney, Brian R. (2014). The evolution and reproductive consequences of primary polygyny in a harvester ant. Paper presented at invited symposium on integration of molecular biology at Entomological Society of America Pacific Branch Meeting.

Haney, Brian R. and Jennifer H. Fewell (2013). Reproductive consequences of primary polygyny in a harvester ant population. Paper presented at Entomological Society of America Meeting.

Haney, Brian R. and Jennifer H. Fewell (2013). Reproductive consequences of primary polygyny in a harvester ant population. Paper presented at Animal Behavior Society Meeting.

Haney, Brian R. and Jennifer H. Fewell (2012). Reproductive characteristics of a polygynous harvester ant population. Poster presented at International Union for the Study of Social Insects Meeting.

Haney, Brian R., and Denise S. Pope (2008). Assessing the potential for sexual conflict in the fiddler crab *Uca princeps*.

Paper presented at Society for Integrative and Comparative Biology Meeting.

Haney, Brian R., and Denise S. Pope (2007). Assessing the potential for sexual conflict in the fiddler crab *Uca princeps*. Poster presented at Animal Behavior Society Meeting.

Haney, Brian R., and Denise S. Pope (2006). Chasing in the fiddler crab *Uca princeps*: sexual conflict or male screening? Poster presented at Animal Behavior Society Latin American Meeting.