

Curriculum Vitae

Elizabeth J. Queathem

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Citizenship U.S.A. Born 30 October 1959, Portland, Oregon

Education

1985-92 University of Utah, Ph.D. 1992 (Biology), Adviser: Dennis Bramble.
“Ontogenetic variation in jumping ability in the grasshopper *Schistocerca americana*.”
1987 Organization for Tropical Studies Field Ecology Course in Costa Rica
1977-79 & Reed College, B.A. 1984 (Biology)
83-84

Teaching experience. Animal locomotion; comparative animal physiology; comparative vertebrate morphology; human reproduction; ecology; evolution; ecosystems of the American Southwest; evolutionary and organismal biology

Courses taught since coming to Grinnell.

2009-10. Tutorial: Movement, Feeling, Who We Are.
Biology 150: Animal Locomotion.
2008-9. Biology 252: Organisms, Evolution, and Ecology.
SST/SCI 300: Biomedical Technology, Reproduction, and Public Policy (with Kent McClelland)
ENV 195: Environmental Challenges and Responses
2007-8. Biology 395: Comparative Vertebrate Morphology w/lab
Biology 150, Intro to Biological Inquiry: Animal Locomotion w/lab
2006-7. HUM/SST/SCI 300: Control of Reproduction (w/McClelland & Feng)
2005-6. Biology 150, Intro to Biological Inquiry: Animal Locomotion w/lab
2004-5. Biology 364: Animal Physiology w/lab
2002-3. Biology 150, Intro to Biological Inquiry: Animal Locomotion w/lab
HUM/SST/SCI 300: Control of Reproduction (w/McClelland & Feng)
2001-2. SST/SCI 195: Biotech. & the Perfection of Human Life (w/McClelland)
2000-1. Biology 364: Animal Physiology w/lab
1999-2000. Biology 135: Structure and Function of Organisms w/lab
1998-9. Biology 135: Structure and Function of Organisms w/lab
Biology 364: Animal Physiology w/lab
1997-8. Biology 135: Structure and Function of Organisms w/lab
Biology 364: Animal Physiology w/lab
1996-7. Special Topics BIO 197: Animal Locomotion

Research interests. Locomotor biomechanics and energetics; physiological and psychological response to exercise; water quality and land use issues in the Midwest

Post-Ph.D. Professional Experience

1999-present Lecturer, Department of Biology, Grinnell College

1997-99 Assistant Professor of Biology, Grinnell College (replacing Clark Lindgren)
1996-97 Lecturer, Department of Biology, Grinnell College
1994-96 DARPA Postdoctoral Scholar, University of California, Berkeley
1992-94 NSF Postdoctoral Scholar, University of California, Berkeley

Support / honors

2004 IOWATER Iowa Watershed Group of the Year (together with Gene Rohr, Jean Perri, Doris Hotchkin, and Judie Krebsbach)
1992-94 NSF Postdoctoral Fellowship
1992 Awarded NIH Postdoctoral Fellowship (declined in favor of NSF Postdoc)
1990 2nd Place, Best Student Paper Award, Division of Comparative Biomechanics
1989 Best Student Paper Award, Division of Invertebrate Zoology, American Society of Zoologists
1989 E. Lucy Braun Award for Best Student Poster, Ecological Society of America

Memberships. American Physiological Society, Society for Integrative and Comparative Biology, Midwestern Psychological Association, Iowa Academy of Science.

Talks, Posters, and Publications (undergraduate student authors underlined)

Nguyen Ambrose AJ and Queathem E (2009) Comparative acute stress analysis of cortisol, DHEA, and psychometric evaluations in males and females. Poster presented at the Annual Meeting of the Midwestern Psychological Association, 29 April 09, Chicago, Illinois.

Greenberg AJ (2009) Sleep deprivation in college-aged women is associated with increased cortisol and progesterone. Poster presented at the Annual Meeting of the Midwestern Psychological Association, 29 April 09, Chicago, Illinois.

Queathem EJ and MacGillivray A (2009) Cortisol, anxiety, and mood responses to exercise and rest. Talk presented at the Annual Meeting of the Midwestern Psychological Association, 1 May 09, Chicago, Illinois.

Langton T (2009) The psychological and physiological benefits of exercise for adolescent children. Talk presented at the Annual Meeting of the Iowa Academy of Science, 17 April 09, Des Moines, Iowa.

Queathem EJ and MacGillivray A (2008) Cortisol, stress, and exercise. Poster presented at the 2008 Annual Meeting of the American Society of Physiologists, 26 September 08, Hilton Head, South Carolina.

McGillivray A and Queathem E (2008) Exercise and cortisol: implications of HPA activity. 2008 Great Plains Students' Psychology Convention. 2nd Place, Best Student Poster Award.

Queathem EJ (2008) Water Quality and Environmental Conflict Resolution. Tallgrass Bioneers

Satellite Conference, Grinnell, Iowa, 31 October 2008.

Queathem EJ, Rohr G, Perri J, Hotchkin D, Wemer B, and Greenberg K (2008) Water Quality Improvement in an Urban Watershed. Poster presented at the North American Prairie Conference, Winona, Minnesota, 7 August 2008.

Queathem EJ (2007) Water Quality: Policy, Science, Solutions. Tallgrass Bioneers Satellite Conference, Grinnell, Iowa, 21 October 2007.

Rohr G, Queathem E, Hotchkin D, Perri J, Wemer R, and Greenberg K (2005) Changes in Water Quality at Arbor Lake. Poster presented at the Iowa Department of Natural Resources Water Quality Symposium, Ames, Iowa.

Rohr G, Queathem E, Hotchkin D, and Perri J (2004) Water Quality at Arbor Lake. Poster presented at the Iowa Department of Natural Resources Water Quality Symposium, Ames, Iowa.

Queathem E and Full RJ (1995) Variation in jump force production within an instar of the grasshopper *Schistocerca americana*. *J. Zool., London* **235**: 605-620.

Queathem E (1992) The ontogeny of grasshopper jumping performance. *The Journal of Insect Physiology* **37(2)**: 129-138.

MAP Students and Summer Interns Supervised (since arrival at Grinnell)

2009. Christine Grummon.

2009. Kelsey Holkesvik.

2008-9. Alexandra Greenberg. (MAP: Sleep loss, stress, cortisol, and progesterone in college-aged women)

2008-9. Jacques Nguyen. (MAP: Exercise, cortisol, and response to psychological stress)

2008. Tashi Langton. (MAP: Exercise, anxiety, response to encouragement, and body image in middle-school children)

2008. Paige Greenley. (Prairie Studies internship with Grinnell Parks & Rec: butterfly gardens in public schools)

2006-8. Amanda MacGillivray. (MAP: Exercise, anxiety, and cortisol)

2001. Josh Rosenblum. (Internship with Grinnell Public Works: Revising downtown business recycling program and investigating yard waste and food scrap composting)

2001. Aeleka Schortmann. (Internship with Poweshiek County Soil and Water Conservation District: Public involvement in the Arbor Lake watershed project through water audits, rain barrel workshops, and education)

1999-2000. Lisa Haberl. (MAP: fluid balance and locomotion in tarantulas)

Raj Sahu. (MAP: response to exercise in muscle growth in the cockroach *Blaberus discoidalis*)

1998-9. Bridget Illian. (MAP: Dispersal of Collembolans by water)

Fran Lee. (MAP: Differences among prairie types in soil insect distribution and abundance)

1997-8. Ken Lidle. (MAP: Insect diversity and abundance at CERA)

David Rosenthal. (MAP: Insect diversity and abundance at CERA)
1996-7. Serguei Skripets. (MAP: miniature force plate construction)

College Service

- Mentor to Grinnell DC Posse 1, 2005-9
- Peace Studies Committee (2006-present)
- EcoCampus Committee (2007-present)
- Institutional Review Board (2007-9)

Community Service

- President (2005-2007), Past President (2007-2008), and Board member (2003-5, 2008-present), Imagine Grinnell
- Board member (2008-present) and Chair (present), Grinnell Parks and Recreation Advisory Board
- Member of Poweshiek-I80 Development Group delegation to Washington, DC (2006, 2007, 2008)
- Committee member, Arbor Lake Watershed Committee
- Member, IOWATER Arbor Lake Water Sampling Team
- Member, Grinnell Green Drinks Chapter on Environmental Issues
- Member, Mayor's Commission on Greening Grinnell
- Member, Bioneers Committee
- Girl Scout leader, Troop 128