

CURRICULUM VITAE (September 2025)

James B. Martin

Professor of Biology and Environmental Science
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Education

Doctor of Philosophy
Texas A&M University
Department of Entomology
College Station, Texas 77843-2475
Ph. D., Entomology (1997-2001)

Doctoral dissertation (supervised by S. B. Vinson): **Social Homeostasis and Foraging Efficiency in Monogyne *Solenopsis invicta* (Hymenoptera: Formicidae) Societies.**

Bachelor of Science
Southern Illinois University
Department of Zoology
Carbondale, Illinois
B.S., Zoology (1990-1992)

Professional Experience

May 2014 – to present
Professor of Biology
Adrian College
Adrian MI

May 2008 – May 2014
Associate Professor of Biology
Adrian College

August 2002 – May 2008
Assistant Professor of Biology
Adrian College

Teaching Experience (many sections of each)

Animal Behavior and Communication (BIOL 357); Animal Biology (BIOL 104); Aquatic Ecology (BIOL 499); Biology and Society (BIOL 101); Ecology (BIOL 217); Ecology Laboratory (BIOL 218); Biology of Parasites (BIOL 366); Evolutionary Biology (BIOL 309); Entomology (BIOL 364); Human Anatomy (BIOL 455); Introduction to Biology (BIOL 110); Elgin Community College; Invertebrate Zoology (BIOL 262); Junior Seminar (BIOL 301); Insect Morphology (ENTO 305) Texas A&M University); Environmental Problems and Solutions (ESS 325); Geographic Information and Positioning Systems (ESS 375)

Selected Publications and Presentations

2023 13th National Water Monitoring Conference. April 26th Virginia Beach VA. Twenty Years of Stream Search in Southeast Michigan. (**J.B. Martin** and Carley Kratz)

2021 Universities Council on Water Resource. June 8th. Live Streamed. Using Floating Plants In A Constructed Wetland For Phosphorous Removal From Tile Drain Runoff. *Jeremiah Asher, Lois Wolfson, Dawn Reinhold, Alaina Nunn and **J.B. Martin**)

2016 Belle Isle Aquarium Second Annual Conservation Day Symposium. April 9th. Detroit, MI. Sampling a 'Hhot Spot' Sub-Basin: Nutrient Fluctuations on a Stream through Time (**J.B. Martin** and E. Huber)

2014 9th National Monitoring Conference, April 30-May 2nd Cincinnati, Ohio. Tracking Macroinvertebrate Trends in Water Quality with Respect to Flow Conditions and other Variables (**J.B. Martin**)

2012 8th National Water Monitoring Conference, April 30-May 4th Portland, Oregon. Comparing Metrics Used to Assess Macroinvertebrate Collects: Ways to Communicate Your Results and Avoid Calibration Problems (**J.B. Martin**)

2011. 69th Annual Meeting of the Midwest Political Science Association, March 31-April 3, 2011, Chicago, Illinois. Volunteer Stream Quality Monitoring in the River Raisin Watershed: The Problematic Role of Citizen-Science" (**J. B. Martin** and J. H. Hanley)

2009 Michigan Lake and Stream Region 2 Fall Meeting, Potter Center, Jackson Community College, MI. Assessing stream health in the River Raisin Watershed. (**J. B. Martin**)

2009 Michigan Academy of Arts, Letters & Sciences, Wayne State University, Detroit, MI. Aquatic insect diversity in temporary and semi-permanent ponds in relation to pond size, seasonal effects and sampling effort (**D. A. Thomas**, C. K. Limback, J. B. Martin).

2008. **Martin, J. B.** and S. B. Vinson. The influence of travel time on sugar loading decisions and water balance in the central place foraging ant *Solenopsis invicta*. *Insectes Sociaux* 55(2):129-136.

2008. Sixth National Water Monitoring Conference, Monitoring: Key to Understanding Our Waters, Atlantic City, NJ. Determining false negatives in volunteer collected data: the River Raisin experience (**J. B. Martin**)

2007. Michigan Academy of Arts, Letters & Sciences, Ferris State University, Big Rapids, MI. Aquatic and terrestrial invertebrate fauna in a southeast Michigan woodland (**C. K. Limback** and J. B. Martin)

2005. Husband, R. W., **J. B. Martin**. A new species of Podapolipidae (Acari: Heterostigmata), parasite of *Aidemona azteca* (Orthoptera: Acrididae) in Honduras and redescription of the genus *Podapolipoides*. *Internat. J. Acarol.* 31(3): 237-244.

2004. Jornada sobre VIH/SIDA y Sexualidad Humana, Catacamas, Honduras. La Biología del VIH: la prevención, la patología y el tratamiento (**J. B. Martin** and Daniel Capps)

2003. Pedersen, E. K., T. L. Bedford, W. E. Grant, S. B. Vinson, **J. B. Martin**, M. T. Longnecker, C. L. Barr, and B. M. Drees. Effect of red imported fire ants on habitat use by hispid cotton rats (*Sigmodon hispidus*) and northern pygmy mice (*Baiomys taylori*). *Southwest. Natural.* 48(3) 419-426.

Selected Service, Grants and Awards

2016 Water Quality Monitoring of the River Raisin to Assist in Land Use Planning. USGS subrecipient grant in conjunction with the Institute of Water Research at MSU \$15,000

2015 Training with the Remote Sensing & GIS Research and Outreach Services at MSU - Introduction to ArcGIS and ArcGIS II: Beyond the Basics.

2015 Adrian College Faculty Research Grant. Constructed an aquaponics system on campus with features of both aquaculture and hydroponics. \$2000.00

2013 Excel Instructor of the Year Award, Adrian College

2012 Training with the US Army Corps of Engineers 2-3 August: Monitoring Michigan Streams for Sediment. R.A. MacMullen Conference Center, Rosecommon, MI

2011 Mentor of the Year award. McNair Scholars Program, Adrian College and Siena Heights University.

2011 Search committee for two new mathematics faculty; Adrian College. Also served or chaired on search committees for Biology, Chemistry, Physics and the director of the Pre-Health Institute over the past 5 years.

- 2023-2007 Director, Adopt-A-Stream program for the River Raisin Watershed Council. Organized and conducted spring and fall stream searches. Responsible for annual reports.
- 2016-2006 Member, Stubnitz Environmental Education Partnership Advisory Board. Board advises Lenawee Independent Schools on practices relating to grade school outreach education to tri-county area school children.
- 2012 TRIO EXCEL Program Excellent Instructor Award. Adrian College.
- 2011 Adrian College Faculty Research Grant; grant for research and travel to Honduras. Collected insects and examined insect diversity in riparian habitats in remote portions of the country. \$2300.00.
- 2008-2014 Chair, Biology Department, Adrian College.
- 2002-2008 Chair, Faculty Life Committee, Adrian College.
- 2008 Project leader for a macroinvertebrate census of the temporary ponds at Dawson Arboretum, \$3,800.00 from Dawson Foundation for student honorariums and supplies.
- 1997 Research grant. Co-authored with S. B. Vinson for research on foraging behavior of *Solenopsis invicta*, from the Texas Imported Fire Ant Research Project. \$90,000.00.