

James Bruce Moring, Ph.D.

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Education

- 1986-1991 University of North Texas, Denton, Texas, Ph.D. in Ecology, May 1991, 85 earned semester hours.
Dissertation: "Habitat Partitioning by a Cursorial Spider Guild, and Intraspecific Behaviors of the Wolf Spider *Pardosa valens* (Lycosidae) and the Stonefly *Hydroperla crosbyi* (Perlodidae)."
- 1984-1986 Angelo State University, San Angelo, Texas, M.S. in Biology with a minor in Chemistry, August 1986, 40 earned semester hours.
Thesis: "Resource Partitioning between Two Darters, *Etheostoma spectabile* and *Etheostoma lepidum* (Pisces: Percidae) in the South Concho River."
- 1982-1984 Texas Tech University, Lubbock, Texas, M.S. in Zoology with a minor in Museum Science, August 1984, 36 earned semester hours.
- 1978-1982 Angelo State University, San Angelo, Texas, B.S., Biology with a minor in Chemistry, August 1982, 124 earned semester hours.

Teaching Experience

- 2015-current Part-time Assistant Professor in Biology and Environmental Studies, Southwestern University, Georgetown, Texas
- Teaching Ecology and The Human Organism, Spring 2016
 - Taught Ecology and The Human Organism, Fall 2015
 - Taught Stream Ecology and Stream Management, Spring 2015
- 2014-current Adjunct Faculty, Central Texas College, Killeen and Marble Falls, Texas
- Lecturer, Introductory Biology for Science Majors, Spring 2014 and Fall 2015
 - Lecturer, Introductory Biology for Non-Science Majors, Spring 2015 and Summer 2015
 - Lecturer, General Zoology for Science Majors, Spring 2014
 - Laboratory Instructor for Introductory Biology and General Zoology for Science Majors. Responsible for inventorying, ordering, and preparing all laboratory materials and instructional aides for laboratory exercises.

Moring

- 2010 Lecturer, Senior University, Georgetown, Texas
- Course entitled “Rivers and Streams of the Edwards Plateau of Texas: An Ecological Journey.”
- 2009 Lecturer, Senior University, Georgetown, Texas
- Course entitled “The Ecology of Texas Rivers and Streams.”
- 1986-1991 Teaching Assistant and Teaching Fellow, University of North Texas
- Teaching Assistant and Laboratory Director, Introductory Zoology. Responsible for preparation of all laboratory materials for exercises, coordinated laboratory schedules, trained teaching assistants, and coauthored a zoology laboratory manual with a focus on inquiry and experimentation.
 - Teaching Fellow, Lecturer of Introductory Zoology and General Ecology.
- 1983-1984 Teaching Assistant, Texas Tech University, Department of Biological Sciences
- Teaching Assistant for Introduction to Botany Laboratory.

Relevant Skills

- Experience with Blackboard and Moodle online course organization tools.
- Preparation and scheduling introductory biology laboratories that are inquiry based.
- Applied research experience in the fields of freshwater ecology and water chemistry that can be brought to the classroom to enhance the learning experience.
- Course development and delivery experience for introductory biology at large state universities, community colleges, and a small liberal arts university.

Other Professional Experience

- 2016-current Technical Advisor for the Texas Instream Flows Program
- Under contract with Texas Parks and Wildlife and the Meadows Center at Texas State University as a technical reviewer of river-basin scale implementation study plans of with the Texas Instream Flows Program.

Moring

- 2013-current Independent Water Resources Consultant
- Under contract with Plateau Land and Wildlife Management Inc. to provide water resource conservation services to private landowners.
- 2011-2013 U.S. Geological Survey, Science Coordination Liaison to the U.S. Fish and Wildlife Service's Gulf Coast Prairie Landscape Conservation Cooperative
- Served as technical liaison to members of a science coordination committee charged with the development of a strategic plan for the landscape-scale conservation of natural resources in a Gulf Coast Prairie aggregated ecoregion.
- 2006-2013 U.S. Geological Survey (USGS), Aquatic Biology Technical Lead for the Texas Water Science Center, Austin, Texas
- Senior Biologist for the USGS Texas Water Science Center. Responsible for reviewing and approving all biological data collection and research activities for the USGS Texas Water Science Center.
 - Serve as a technical specialist and mentor for junior biologists and other project staff regarding aquatic biological issues.
- 1998-2005 U.S. Geological Survey, National Water Quality Assessment (NAWQA) Project Chief (Trinity River Basin), Austin, Texas
- Managed all project activities and supervised staff through all phases of project development and implementation.
- 1992-2013 U.S. Geological Survey Austin, Biologist for Trinity River Basin NAWQA program and Texas District, Austin, Texas
- Plan and conduct all aspects of biological and stream habitat assessments as part of the Trinity NAWQA program and serve as project lead on several USGS Texas District water-quality and biological cooperative studies.
- 1991-1992 Post-Doctoral Research Associate, University of North Texas Water Research Field Station, Denton, Texas
- Post-doctoral Project Director of surrogate ecosystem studies for U.S. EPA- mandated pesticide registration process.
 - Responsible for design, implementation, and data analysis for outdoor surrogate aquatic ecosystems projects.
 - Conducted studies addressing fate, transport, and effects of active ingredients in new generation pesticides on aquatic biota.
 - Published two reports dealing with all phases of the projects.

Moring

Publications

- Braun, C.L., Stevens, C.L., Echo-Hawk, P.D., Johnson, N.A., and **Moring, J.B.**, 2015, Abundance of glochidial parasitism in fish assessed in field and laboratory settings and frequency of juvenile mussels or glochidia recovered from hatchery-held fish, central and southeastern Texas, 2012-2013; U.S. Geological Survey Scientific Investigations Report 2015-5217, 53. p.
- Moring, J.B., Braun, C.L., and Pearson, D.L., 2014, Fish Assemblage Composition, and Mesohabitats of the Rio Grande Silvery Minnow and Tamaulipas Shiner in the Rio Grande/Rio Bravo del Norte, in and near Big Bend National Park, Texas, 2010–2011; U.S. Geological Survey Scientific Investigations Report 2014, 110 p.
- Moring, J.B., Papoulias, D.M., and Van Riper, C., 2013, Understanding and Preserving Ecological Resources, pages 42-58 *in* United States–Mexican Borderlands: Facing Tomorrow’s Challenges through USGS Science: U.S. Geological Survey Circular 1380, 318 p.
- Moring, J.B., 2012, Water quality and the composition of fish and macroinvertebrate communities in the Devils and Pecos Rivers in and upstream from the Amistad National Recreation Area, Texas, 2005–7: U.S. Geological Survey Scientific Investigations Report 2012–5038, 70 p.
- Moring, J.B., 2010, Polychlorinated biphenyls in aquatic invertebrates and fish and observations about nitrogen and carbon isotope composition in relation to trophic structure and bioaccumulation patterns, Lake Worth and Meandering Road Creek, Fort Worth, Texas, 2007–08: U.S. Geological Survey Scientific Investigations Report 2010–5235, 29.
- Moring, J.B., 2009, Effects of urbanization on the chemical, physical, and biological characteristics of small Blackland Prairie streams in and near the Dallas-Fort Worth metropolitan area, Texas: U.S. Geological Survey Scientific Investigations Report 2006–5101–C, 31 p.
- Mabe, J.A., and **Moring, J.B.**, 2008, Variation in biotic assemblages and stream-habitat data with sampling strategy and method in tidal segments of Highland and March and Bayous, Galveston County, Texas, 2007: U.S. Geological Survey Scientific Investigations Report 2008–5151, 41 p.
- Moring, J.B., 2005, Status of fish communities in the Rio Grande, Big Bend National Park, Texas—Comparison before and after spring 2003 period of low flow: U.S. Geological Survey Scientific Investigations Report 2005–5209, 11 p.

Moring

- Moring, J.B., 2003, Baseline assessment of fish communities, benthic macroinvertebrate communities, and stream habitat and land use, Big Thicket National Preserve, Texas, 1999–2001: U.S. Geological Survey Water-Resources Investigations Report 03–4270, 33 p.
- Moring, J.B., 2002, Baseline assessment of instream and riparian-zone biological resources on the Rio Grande in and near Big Bend National Park, Texas: U.S. Geological Survey Water-Resources Investigations Report 02–4106, 33 p.
- Moring, J.B., 2002, Comparison of dissolved oxygen and aquatic biota between a State 303(d)-listed stream segment and USGS biological reference sites in the San Jacinto River Basin, Texas, 2000: U.S. Geological Survey Fact Sheet 063–02, 6 p.
- Moring, J.B., 2001, Influence of stream habitat and land use on benthic macroinvertebrate indicators of stream quality of selected above-tidal streams in the Houston-Galveston Area Council Service area, Texas, 1997–98: U.S. Geological Survey Water-Resources Investigations Report 01–4010, 22 p.
- Moring, J.B., 1997, Occurrence and distribution of organochlorine compounds in biological tissue and bed sediment from streams in the Trinity River Basin, Texas, 1992–93: U.S. Geological Survey Water-Resources Investigations Report 97–4057, 19 p.
- Moring, J. Bruce and Donna R. Rose, 1997, Occurrence and Concentrations of Polycyclic Aromatic Hydrocarbons in Semipermeable Membrane Devices and Clams in Three Urban Streams of the Dallas-Fort Worth Metropolitan Area, Texas, *Chemosphere* (34) 3: 551-566.
- Moring, J. Bruce and Kenneth W. Stewart, 1994, Habitat Partitioning by the Wolf Spider (Araneae, Lycosidae) guild in Streamside and Riparian Vegetation Zones of the Conejos River, Colorado, *Journal of Arachnology* 22: 205-217.
- Moring, James B., and K.W., Stewart, 1991, Influence of sex and egg case presence on predatory behavior of the wolf spider *Pardosa valens* Barnes (Araneae: Lycosidae), *Southwestern Naturalist*, 37(2) 132-137.
- Moring, James B., R.L. Hassage, and K.W. Stewart, 1992, Behavioral interactions of intersexual combinations of *Hydroperla crosbyi* (Plecoptera: Perlodidae), *Annals of the Entomological Society of America*, 84 (2) 207-211.
- Stewart, K.W., and **James B. Moring**, 1991, Drumming behavior of four North American euholognathan stonefly species, *Annals of the Entomological Society of America*, 84 (2): 201-206.

Moring

Awards and Accomplishments

Student evaluations were most frequently in “Agree” to “Strongly Agree” range with regards to effective teaching of Ecology and the Human Organism, Fall 2015, and Stream Ecology and Management at Southwestern University, Spring Semester 2015.

Excellent instructor evaluations for two Ecology courses (2009 and 2010) taught at Georgetown Senior University, Georgetown, Texas

Star Cash Awards for Superior Performance (2004, 2005, 2006 and 2007), U.S. Geological Survey, Austin, Texas

Promotion to Senior Biologist (2005), U.S. Geological Survey, Austin, Texas

Group Special Award (1995), U.S. Geological Survey, Austin, Texas

Outstanding Performance as a Scientist (1993 and 1995), U.S. Geological Survey, Austin, Texas

Best Graduate Presentation (1986), Tri-Beta Conference, University of Oklahoma Biological Station, Lake Texoma, Oklahoma

Carr Academic Scholarship (1984-1986), Angelo State University, San Angelo, Texas

Extracurricular and Volunteer Experience

Vice-Chair, Board of Trustees, Wellspring United Methodist Church, Georgetown, Texas

Conservation Chair, San Gabriel Fly Fishers, Georgetown, Texas

Williamson Audubon Group, Williamson County, Texas

Lecturer, Senior University, Georgetown, Texas

Director, Fields and Facilities, Georgetown Soccer Association, Georgetown, Texas

Board Member, Grounds and Maintenance, Georgetown Montessori School, Georgetown, Texas

Webelos Den Leader, Capitol Area Council, Boy Scouts of America

Moring

Interests

Natural history and ecology of Texas

Facilitating outdoor experiences for youth of all ages

Nature photography

Traveling throughout the American Southwest

Very long walks