

**Jessa L. Watters, M.S.**  
Sam Noble Museum  
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### **Formal Education:**

- *M.S.* in Zoology, University of New Hampshire, Durham, NH (May 2006)
  - Advisor: Dr. James Taylor. Research interests include: herpetology, ecology, and animal behavior. Thesis research conducted at the American Museum of Natural History Southwestern Research Station on foraging behavior in two lizard species.
- *B.A.* in Biology, Earlham College, Richmond, IN (May 2001); graduated with college and departmental honors

### **Employment Experience**

Sam Noble Oklahoma Museum of Natural History/University of Oklahoma, Norman, OK

- Collection Manager, Herpetology Collection (June 2009–present)
    - Oversee daily curation, databasing, and cataloging of 62,000+ specimens, maintain archives, manage budgets, organize and lead local field research expeditions, create and present biology/herpetology outreach kits and events, supervise volunteers and student researchers (see \* alongside names in the publication and presentation lists)
  - Adjunct Instructor: Field Herpetology (BIOL 4063) (July 2017–August 2017; July 2018, 2019; May 2020, 2021, 2023 [online via Canvas 2020–2021])
  - Interim Collection Manager, Recent Invertebrates Collection (November 2012–July 2013)
    - Assist in databasing and cataloging the growing invertebrate collection (250,000+ specimens)
- Project Dragonfly, Miami University, Miami, OH (August 2009–December 2012, January 2024–present)
- Adjunct Faculty (Global Field Program; Advanced Inquiry Program)
    - Online courses: Biology and Technology Conservation Science and Community, Issues in Biodiversity, Issues in Evolution, Master's Capstone; On-site in Baja California, Mexico: Master's Field Methods

Earlham College, Richmond, IN (August 2008–May 2009)

- Visiting Assistant Professor of Biology: Ecological Biology (BIOL 111); Biodiversity (BIOL 226); Evolution (BIOL 451); Population and Community Ecology (BIOL 455); Senior Seminar (BIOL 480)

Liberia Teacher Training Program (LTTP), funded by USAID (June 2008)

- Curriculum Consultant Subcontractor: Plant Classification; Simple Experiments: Developed lesson plans and associated materials for science instructors in Liberia to educate other teachers

The Grier School, Tyrone, PA (August 2006–May 2008)

- High School Science Teacher: Advanced Placement (AP) Biology; Honors Biology; General Biology; Zoology; Ecology; Anatomy and Physiology

Center for Talented Youth, Roger Williams University, Bristol, RI (June 2007–July 2007)

- Instructor: Zoology

University of New Hampshire, Durham, NH (August 2003–July 2006)

- Laboratory Instructor: Anatomy and Physiology
- Teaching Assistant: General Ecology; Animal Behavior; Anatomy and Physiology
- Study Session Leader and Coordinator: Principles of Biology I and II
- Private Tutor: Animal Science Anatomy and Physiology

Aquacheck Water Testing Laboratory, Perkins, VT (October 2002–August 2003)

- Lab Analyst: Examined drinking water and waste water quality, including Biochemical Oxygen Demand (BOD), nitrate/nitrites, ammonia, pH, iron, copper, hardness/alkalinity, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), and fecal coliform testing
- The SeaCrest Group, Louisville, CO (July 2001–July 2002)
- Environmental Lab Technician: Inspected water quality and toxicity levels in the water of industrial companies and municipalities in Colorado, and cultured the organism (the Fathead Minnow) used in these tests
- Earlham College, Richmond, IN (August 1998–May 2001)
- Joseph Moore Museum assistant: Durator/designer of museum exhibit about life on the African savanna; Museum Tour Guide
  - Research Assistant: field work, data entry, georeferencing, and creation of bibliographic and etymological lists for Turtles of the World for Dr. John Iverson
  - Teaching Assistant: Ecological Biology; Invertebrate Zoology
- Union Co. Cooperative Extension, Ohio State University, Marysville, OH (June 1997–August 1997)
- Program Assistant: Helped to design and implement educational programs for the public about a local conservation site, the Darby Creek Watershed

### **Professional Service and Editorial Experience**

Sam Noble Oklahoma Museum of Natural History/University of Oklahoma, Norman, OK (June 2009–present)

- Co-chair of Oklahoma Herptile Working Group: oversee collaborative effort (with the Oklahoma Natural Heritage Inventory) to update NatureServe rankings for Oklahoma reptile and amphibian species (December 2018–present)
- Committee member: Collection Management Policy; May Day Emergency Preparedness; Save the Frogs Day (co-chair); Science in Action Day; Ad-hoc Position Search Committees
- Council member: OU Informational Staff Association (September 2015–June 2018)
- Oklahoma Biodiversity Network member (January 2016–present)
- Periodic anonymous reviewer: *Acta Herpetologica*, *Ecology & Evolution*, *Ethology*, *Herpetological Review*, *Journal of Ethology*, *Journal of Herpetology*, *Journal of Zoo & Wildlife Medicine*, *Journal of Zoology*, *Philippine Journal of Science*, *Southwestern Naturalist*, *Zootaxa*

American Society for Ichthyologists and Herpetologists (ASIH)

- Ichthyology and Herpetology Collections Care (IHCC) committee member (July 2014–present); Co-Chair (January 2022–present)
- Ad-hoc IHCC Accreditation Committee member (March 2017–present)
- Board of Governors member (July 2022–present)
- Spiritus Award Committee Member (July 2022–present)

Society for the Preservation of Natural History Collections (SPNHC)

- Education Committee member (January 2021–December 2023)
- Natural History Education DemoCamp organizer (February–July 2021)

Journal for North American Herpetology

- Associate Editor (January 2013–March 2020)

Earlham College, Richmond, IN (August 2008–May 2009)

- Committee member: Invertebrate Biologist Tenure Track search; Physiologist Tenure Track search

The Grier School, Tyrone, PA

- Acting Department Chair (January 2008–May 2008)

### **Work Skills and Accomplishments**

Field Experience

- Oklahoma (statewide), USA (May 2009–present)
- Allen's Cays, Exumas Islands, Bahamas (March 2000; May 2016)
- Deland, Florida, USA (August 2008)
- Southwestern Research Station (SWRS), Arizona, USA (May–July 2004, 2005)
- Galapagos Islands, Ecuador (May–June 2001)

- Mountain Lake Biological Station (MLBS), Virginia, USA (June–August 2000)
- Sand Hills, Nebraska, USA (May–July 1999)
- Equipment use: Garmin GPS, Trimble GeoExplorer Handheld Computer, animal tracking equipment (i.e. VHF, Cellular Tracking Technology [CIT], Recco diodes), water quality testing equipment (i.e. Hach, YSI), 4x4/off-roading vehicles

#### Research/Program Management Skills

- Logistics and planning for large-scale research trips, including site selection, supply and food purchases (for trips lasting 3 days–3 months, covering teams of 3–25+)
- Development of detailed research protocols, data sheets, etc. for training purposes and data management
- Grant writing to obtain research funding
- Scientific writing for grant reports and peer-reviewed articles
- Data entry, data quality control, statistical analysis
- Genetics research: DNA extractions (swab, tissue, eDNA), qPCR screening

#### Curatorial/Teaching skills

- Extensive knowledge of curatorial and archival practices for a fluid-based life sciences collection
- Experience with taxonomy and systematics of worldwide reptiles and amphibians
- Strengths in informal education curriculum design and outreach planning
- Proficiency in a variety of software programs: FileMaker Pro, Microsoft Office, SYSTAT, Adobe Acrobat Creative Suite, MyMedia

#### Additional Training:

- ORS Budget Template Training – Office of Research Services, University of Oklahoma, Norman, OK (August 2023)
- Series of workshops regarding online teaching during COVID-19 shutdown: “Fostering Student Connections”, “Organizing Your Online Course”, “Action-based Assessment Strategies”, “Producing Video-based Content”, “Making the Most out of Live Sessions” – Center for Faculty Excellence, University of Oklahoma, Norman, OK (April 2020)
- Writing Workshop entitled “Writing for Successful Journal Publication to Promote Effective Change in Natural History Collections” – Society for the Preservation of Natural History Collections (June 2017)
- Herpetological Communication Workshop entitled “Distilling your message: Putting yourself into your science” – Society for the Study of Amphibians and Reptiles, Annual Meeting (Aug. 2015)
- Wet Collections Digitization Workshop, Lawrence, KS – Institute for Digital Information and Scientific Communication (iDigBio) (March 2013)
- Foundations in Management – Employee Relations and Development, University of Oklahoma, Norman, OK (February 2013)
- Grant Writing Workshop: Life Sciences – Center for Research and Program Development & Enrichment, University of Oklahoma, Norman, OK (September–October 2012)
- Northern Conservation Center online courses
  - MS214 Collection Management Databases (September 2012)
  - MS209 Collection Management Policies for Museums and Related Institutions (September 2011)
- EVO101 “Teaching Evolution in the Classroom” – Evolution 2011 Conference, Norman, OK (June 2011)
- Georeferencing Workshop – Society for the Preservation of Natural History Collections, Ottawa, Canada (June 2010)

#### Research Publications:

- **Watters, J.L.,** T. Yuri, E.S. Freitas, L. Souza, S. N. Smith, and C.D. Siler. 2023. Development of Environmental DNA assay for screening of Blanchard’s Cricket Frog (*Acris blanchardi*) via laboratory and field methods in Oklahoma, USA. *Proceedings of the Oklahoma Academy of Science* 103: 21–40. <https://ojs.library.okstate.edu/osu/index.php/OAS/article/view/9701>

- Smith, S.N., **J.L. Watters**, and C.D. Siler. 2023. Host ecology drives frog skin microbiome diversity across ecotone in South-Central North America. *Frontiers in Microbiomes* 2: 1286985. <https://doi.org/10.3389/frmbi.2023.1286985>
- Nichols, M.H.\*, S.N. Smith, **J.L. Watters**, and C.D. Siler. 2022. Implementation of a citizen science program to assess chytridiomycosis (*Batrachochytrium dendrobatidis*) prevalence in amphibians across Oklahoma, USA. *Proceedings of the Oklahoma Academy of Science* 102: 1–18. <https://ojs.library.okstate.edu/osu/index.php/OAS/article/view/9448>
- Smith, S.N., I. Schlupp, E. D. Higgins, **J.L. Watters**, K.-A. Bennett, S. Bräger, C. D. Siler. 2022. Development and validation of an environmental DNA protocol to detect an invasive Caribbean freshwater guppy (*Poecilia reticulata*). *Environmental DNA* 4: 304–310. <https://doi.org/10.1002/edn3.248>
- **Watters, J.L.**, G.C. Carpenter, and C.D. Siler. 2021. Updated checklist of amphibians and reptiles at the University of Oklahoma Biological Station at Lake Texoma, Oklahoma. *Proceedings of the Oklahoma Academy of Science* 101: 33–42. <https://ojs.library.okstate.edu/osu/index.php/OAS/article/view/8469>
- **Watters, J.L.**, S.E. Hall\*, and C.D. Siler. 2021. Human impacts on the prevalence of the amphibian infectious diseases, *Batrachochytrium dendrobatidis* and ranavirus, in Oklahoma, USA. *Proceedings of the Oklahoma Academy of Science* 101: 1–13. <https://ojs.library.okstate.edu/osu/index.php/OAS/article/view/8467>
- Vesey, M.N., **J.L. Watters**, R.W. Moody, E.M. Schaubert, J.M. Mook, and C.D. Siler. 2021. Survivorship and spatial use of an urban population of Texas Horned Lizards (*Phrynosoma cornutum*). *Journal of Wildlife Management* 85(6): 1267–1279. <http://doi.org/10.1002/jwmg.22064>
- Siler, C.D., E.S. Freitas, S.N. Maguire\*, D.R. Davis, **J.L. Watters**, A.C. Diesmos, and R.M. Brown. 2020. Additions to the Philippine slender skinks of the *Brachymeles bonitae* complex (Reptilia: Squamata: Scincidae) IV: Resurrection and redescription of *Brachymeles burksi*. *Philippine Journal of Systematic Biology* 14(2): 1–12. <https://doi.org/10.26757/pjsb2020b14005>
- Siler, C.D., E.S. Freitas, T. Yuri, L. Souza, and **J.L. Watters**. 2020. Development and validation of four environmental DNA assays for species of conservation concern in the South-Central United States. *Conservation Genetics Resources* 13: 35–40. <https://doi.org/10.1007/s12686-020-01167-3>
- Smith, S.N.\*, **J.L. Watters**, E.D. Ellsworth, D.R. Davis, and C.D. Siler. 2019. Assessment of *Batrachochytrium dendrobatidis* and ranavirus among wild amphibians from four Philippine islands. *Herpetological Review* 50(4): 729–734.
- Smith, S.N.\*, **J.L. Watters**, E.C. Marhanka\*, S.L. McMillin\*, D.R. Davis, J.K. Farkas, and C.D. Siler. 2019. Investigating seasonal variation of ranavirus in central Oklahoma, USA, amphibians. *Herpetological Review* 50(3): 508–512.
- Davis, D.R., J.K. Farkas, T.R. Kruesselbrink\*, **J.L. Watters**, E.D. Ellsworth, J.L. Kerby, and C.D. Siler. 2019. Prevalence and distribution of ranavirus in amphibians from southeastern Oklahoma. *Herpetological Conservation and Biology* 14: 360–369. [www.herpconbio.org/Volume\\_14/Issue\\_2/Davis\\_etal\\_2019.pdf](http://www.herpconbio.org/Volume_14/Issue_2/Davis_etal_2019.pdf)
- **Watters, J.L.**, S.L. McMillin\*, E.C. Marhanka\*, D.R. Davis, J.K. Farkas, J.L. Kerby, and C.D. Siler. 2019. Seasonality in *Batrachochytrium dendrobatidis* detection in amphibians in central Oklahoma, USA. *Journal of Zoo and Wildlife Medicine* 50: 492–497. Doi: <https://doi.org/10.1638/2018-0103>
- **Watters, J.L.**, D.R. Davis, T. Yuri, and C. D. Siler. 2018. Concurrent infection of *Batrachochytrium dendrobatidis* and ranavirus among native amphibians from northeastern Oklahoma, USA. *Journal of Aquatic Animal Health* 30: 291–301. Doi: <https://doi.org/10.1002/aah.10041>
- Siler, C.D., D.R. Davis, **J.L. Watters**, E.S. Freitas, O.W. Griffith, J.W. Binaday, A.H.T. Lobos, A.K. Amara, and R.M. Brown. 2017. The first record of the *Pseudogeckeo brevipes* Complex from the northern Philippines, with description of a new species. *Herpetologica* 73: 162–175. Doi: <https://doi.org/10.1655/HERPETOLOGICA-D-16-00074>
- Marhanka, E.C.\*, **J.L. Watters**, N.A. Huron, S.L. McMillin\*, C.C. Winfrey\*, D.J. Curtis, D.R. Davis, J.K. Farkas, J.L. Kerby, and C.D. Siler. 2017. Detection of high prevalence of *Batrachochytrium dendrobatidis* in amphibians from southern Oklahoma, USA. *Herpetological Review* 48: 70–74.

- **Watters, J.L.**, R.L. Flanagan\*, D.R. Davis, J.K. Farkas, J.L. Kerby, M.J. Labonte\*, M.L. Penrod\*, and C.D. Siler. 2016. Screening natural history collections for historical presence of *Batrachochytrium dendrobatidis* from anurans in Oklahoma, USA. *Herpetological Review* 42: 214–220.
- Davis, D.R., A.D. Geheber, **J.L. Watters**, M.L. Penrod\*, K.D. Feller\*, A. Ashford\*, J. Kouri\*, D. Nguyen\*, K. Shauburger\*, K. Sheatsley\*, C. Winfrey\*, R. Wong\*, M.B. Sanguila, R.M. Brown and C.D. Siler. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* complex (Reptilia: Squamata: Scincidae) III: a new species from Tablas Island. *Zootaxa* 4132: 30–43. Doi: <http://doi.org/10.11646/zootaxa.4132.1.3>
- Siler, C.D., D.R. Davis, E.S. Freitas, N.A. Huron, A.D. Geheber, **J.L. Watters**, M.L. Penrod\*, M. Papes, A. Amrein\*, A. Anwar\*, D. Cooper\*, T. Hein\*, A. Manning\*, N. Patel\*, L. Pinaroc\*, A.C. Diesmos, M.L. Diesmos, C.H. Oliveros and R.M. Brown. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* complex (Reptilia: Squamata: Scincidae) II: a new species from the northern Philippines. *Zootaxa* 4132: 15–29. Doi: <http://doi.org/10.11646/zootaxa.4132.1.2>
- Geheber, A.D., D.R. Davis, **J.L. Watters**, M.L. Penrod\*, K.D. Feller\*, C.S. Davey\*, E.D. Ellsworth\*, R.L. Flanagan\*, B.D. Heitz\*, T. Moore\*, M.D.C. Nguyen\*, A. Roberts\*, J. Sutton\*, M.B. Sanguila, C.W. Linkem, R.M. Brown and C.D. Siler. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* complex (Reptilia: Squamata: Scincidae) I: a new species from Lubang Island. *Zootaxa* 4132: 1–14. Doi: <http://doi.org/10.11646/zootaxa.4132.1.1>
- **Watters, J.L.**, S.T. Cummings\*, R.L. Flanagan\*, and C.D. Siler. 2016. Review of morphometric measurements used in anuran species descriptions and recommendations for a standardized approach. *Zootaxa* 4072: 477–495. Doi: <http://doi.org/10.11646/zootaxa.4072.4.6>
- Diesmos, A.C., **J.L. Watters**, N.A. Huron, D.R. Davis, A.C. Alcala, R.I. Crombie, L.E. Afuang, G. Gee-Das, R.V. Sison, M.B. Sanguila, M.L. Penrod\*, M.J. Labonte\*, C.S. Davey\*, E. A. Leone\*, M.L. Diesmos, E.Y. Sy, L.J. Welton, R.M. Brown, and C.D. Siler. 2015. Amphibians of the Philippines, Part I: Checklist of the Species. *Proceedings of the California Academy of Sciences, Series 4*, 62 (3:20): 457–539.
- Davis, D.R., **J.L. Watters**, G. Köhler, C. Whitsett, N.A. Huron, R.M. Brown, A.C. Diesmos, and C.D. Siler. 2015. Redescription of the rare Philippine false gecko *Pseudogekko brevipes* (Reptilia: Squamata: Gekkonidae) and description of a new species. *Zootaxa* 4020: 357–374. Doi: <http://dx.doi.org/10.11646/zootaxa.4020.2.7>
- **Watters, J.L.** and C.D. Siler. 2014. Preliminary quantifications of curator success in life science natural history collections. *CLS Journal for Museum Studies* 8(1): 21–33.
- Siler, C.D., L.J. Welton, **J.L. Watters**, D.R. Davis, C.S. Davey\*, A.C. Diesmos, and R. M. Brown. 2014. Taxonomic revisions of the *Pseudogekko compressicorpus* complex (Reptilia: Squamata: Gekkonidae), with descriptions of three new species. *Herpetological Monographs* 28: 110–139. Doi: [10.1655/HERPMONOGRAPHS-D-14-00005](http://dx.doi.org/10.11646/zootaxa.4020.2.7)
- Siler, C.D., C.W. Linkem, K. Cobb, **J.L. Watters**, S. T. Cummings\*, A.C. Diesmos, and R. M. Brown. 2014. Taxonomic revision of the semi-aquatic skink *Parvosцинus leucospilos* (Reptilia: Squamata: Scincidae), with description of three new species. *Zootaxa* 3847(3): 388–412. Doi: <http://dx.doi.org/10.11646/zootaxa.3847.3.4>
- **Watters, J.L.** 2010. A test of optimal foraging and the effects of predator experience in the lizards *Sceloporus jarrovi* and *Sceloporus virgatus*. *Behaviour* 147: 933–951. Doi: <https://doi.org/10.1163/000579510X498219>
- **Watters, J.L.** 2009. Daily activity budgets for neonate and adult *Sceloporus jarrovi* and adult *Sceloporus virgatus* in southeastern Arizona. *Journal of Herpetology* 43: 665–675. <https://doi.org/10.1670/08-124.1>
- **Watters, J.L.** 2008. Comparison of two diet collection methods in the lizards, *Sceloporus jarrovi* and *Sceloporus virgatus*. *Herpetological Review* 39(3): 307–310.

#### Natural History and Geographic Distribution Publications

- **Watters, J.L.**, and K.C. Johnson. 2022. Book Review: The Reptiles Coloring Book. *Herpetological Review* 53(1): 172–173.

- Davis, D.R., M.B. Sanguila, J.C. Brown, R.M. Brown, K.A. Cobb, P. Begmann, G. Morinaga, N.A. Huron, **J.L. Watters**, and C.D. Siler. 2015. Natural History Notes: *Pseudogecko ditoy* (Leyte Diminutive False Gecko). Morphology. Herpetological Review 46: 634–635.
- Sanguila, M.B., N.D.C. Realubit, M.L. Diesmos, A. Lorenzo II, A. De Layola, J.C. Brown, K.A. Cobb, P. Bergmann, G. Morinaga, E.S. Freitas, N.A. Huron, and **J.L. Watters**. 2015. Geographic Distribution: *Pelophryne lighti* (Mindanao Flathead Toad). Herpetological Review 46: 380.
- Iverson, J.B., D. Hearne, **J. Watters**, D. Croshaw, and J. Larson. 2000. *Chelydra serpentina*. Density and biomass. Herpetological Review 31: 238.

#### Research Presentations:

- **Watters, J.L.** and C.D. Siler. 2023. Amphibian infectious disease presence in Oklahoma. Oklahoma Invasive Species Conference, Edmond, OK (December 1, 2023) [oral].
- Hedgpeth, G., T. Verrett, D.J. Becker, **J.L. Watters**, and C.D. Siler. 2023. Exploratory pathogen survey of amphibian blood parasites in eastern Oklahoma. University of Oklahoma, Undergraduate Research Day, Norman, OK (April 15, 2023) [oral].
- Fulton, A., **J.L. Watters**, and C.D. Siler. 2023. Texas horned lizard survey methods. Oklahoma Herpetological Society Annual Meeting, Edmond, OK (February 25, 2023) [oral].
- Phillips, M., R. Singer, A. Monfils, J. Bauer, J. Robinson, E. Leith, and **J. Watters**. Partnerships for Education: Natural History Education DemoCamp. Joint Meeting of Ichthyologists and Herpetologists, Spokane, WA (July 27–31). [oral]
- Phillips, M., A. Monfils, J. Bauer, E. Leith, J. Robinson, **J. Watters**. Society for the Preservation of Natural History Collections–Natural History Demo Camp. Biodiversity Digitization: Celebrating a Decade of Progress, online (September 22–23, 2021). [poster]
- **Watters, J.L.**, T. Yuri, E.S. Freitas, L. Souza, and C.D. Siler. Environmental DNA: an innovative technique to monitor herpetological species of special concern across Oklahoma Annual Meeting of the Oklahoma Herpetological Society, Edmond, OK (July 24, 2021). [oral]
- Hanna, M.R.\*, **J.L. Watters**, C.D. Siler. Implementation of a citizen science program to assess chytridiomycosis (*Batrachochytrium dendrobatidis*) prevalence in amphibians across Oklahoma, USA. Society for the Preservation of Natural History Collections–Natural History Demo Camp, online (June 28–29, 2021). [oral]
- **Watters, J.L.**, T. Yuri, E.S. Freitas, L. Souza, and C.D. Siler. Environmental DNA: an innovative technique to monitor herpetological species of special concern across Oklahoma. Southwestern Association of Naturalists, online (April 22–24, 2021). [oral]
- **Watters, J.L.** Amphibian infectious diseases. Annual Meeting of the Oklahoma Herpetological Society, Edmond, OK (February 22, 2020). [oral]
- Casauay, J., **J. L. Watters**, and C.D. Siler. Investigating ranavirus prevalence in Oklahoma turtles. Oklahoma Natural Resources Conference, Norman, OK (February 10–12, 2020). [oral]
- **Watters, J.L.** Amphibian Infectious Disease Citizen Science Project. Oklahoma Environmental Education Expo, Oklahoma City, OK (February 7, 2020). [oral]
- **Watters, J.L.**, T. Yuri, L. Souza, and C.D. Siler. Environmental DNA: an innovative technique to monitor herpetological species of concern in Oklahoma. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT (July 24–28, 2019). [oral]
- **Watters, J.L.**, E.S. Freitas, T. Yuri, and C.D. Siler. Preliminary results of environmental DNA (eDNA) screening for reptiles and amphibians of Oklahoma. Oklahoma Natural Resources Conference, Tulsa, OK (February 20–22, 2019). [oral]
- P. Crawford and **J.L. Watters**. Testing the effectiveness of sampling environmental DNA to detect the presence of aquatic invasive plants. Oklahoma Natural Resources Conference, Tulsa, OK (February 20–22, 2019). [oral]
- **Watters, J.L.** and C.D. Siler. Results of a statewide assessment of amphibian infectious disease on Oklahoma public lands. Southwest Partners in Amphibian and Reptile Conservation Meeting, Oklahoma City, Oklahoma (September 6–9, 2018). [oral]



- Freitas, E. S., T. Yuri, **J. L. Watters**, and C. D. Siler. September 7, 2018. Developing environmental DNA assays to monitor amphibian populations in Oklahoma. Southwest Partners in Amphibian and Reptile Conservation Meeting, Oklahoma City, Oklahoma (September 6–9, 2018). [oral]
- **Watters, J.L.**, D.R. Davis, T. Yuri, and C. D. Siler. Concurrent infection of *Batrachochytrium dendrobatidis* and ranavirus among native amphibians from northeastern Oklahoma, USA. Southwestern Association of Naturalists, San Marcos, TX (April 12–16, 2018). [oral]
- Smith, S.N.\*, **J.L. Watters**, D.R. Davis, and C.D. Siler. Assessment of Seasonal Variation in Amphibian Infectious Diseases in Central Oklahoma. Southwestern Association of Naturalists, San Marcos, TX (April 12–16, 2018). [oral]
- Ellsworth, E.D., **J.L. Watters**, S.N. Smith\*, and C.D. Siler. Amphibian disease prevalence in Oklahoma nature preserves and wildlife management areas. Southwestern Association of Naturalists, San Marcos, TX (April 12–16, 2018). [poster]
- **Watters, J.L.** and C.D. Siler. Results of a statewide assessment of amphibian infectious disease on Oklahoma public lands. Oklahoma Natural Resources Conference, Tulsa, OK (February 21–23, 2018). [oral]
- Smith, S.N.\*, **J.L. Watters**, and C.D. Siler. Assessment of Seasonal Variation in Amphibian Infectious Diseases in Central Oklahoma. Oklahoma Natural Resources Conference, Tulsa, OK (February 21–23, 2018). [oral]
- **Watters, J.L.** and C.D. Siler. Citizen Science Involvement in Oklahoma Amphibian Infectious Disease Screening. Society for the Preservation of Natural History Collections, Denver, CO (June 19–23, 2017). [poster]
- **Watters, J.L.**, C.D. Siler, T. Yuri, and L. Souza. Detecting Native Aquatics Network (DNANet)—A novel biodiversity freshwater monitoring program for native aquatic and semi-aquatic species using Environmental DNA. Southwestern Association of Naturalists, Lawton, OK (April 13–16, 2017). [poster]
- Ellsworth, E.D. **J.L. Watters**, D.R. Davis, J.K. Farkas, and C.D. Siler. Ranavirus Detection in Southeastern Oklahoma. Southwestern Association of Naturalists, Lawton, OK (April 13–16, 2017). [poster]
- **Watters, J.L.** and C.D. Siler. Oklahoma Amphibian Infectious Disease Sampling: Preliminary Results and Future Recommendations. Oklahoma Natural Resources Conference, Tulsa, OK (February 22–24, 2017). [oral]
- **Watters, J.L.** and C.D. Siler. Citizen Science Involvement in Oklahoma Amphibian Infectious Disease Screening. Oklahoma Biodiversity Network Forum, Edmond, OK (February 4, 2017). [poster]
- **Watters, J.L.** 2016. Amphibian infectious disease in Oklahoma. Oklahoma Biodiversity Network Forum, Norman, OK (March 5, 2016). [oral]
- **Watters, J.L.**, S. Sekscienski, and C.D. Siler. 2015. Development of new collaborative and citizen science projects for infectious disease sampling in Oklahoma. Society for the Study of Amphibians and Reptiles, Annual Meeting, Lawrence, KS (July 30–Aug. 3, 2015). [poster]
- Flanagan, R.L.\*, **J.L. Watters**, and C.D. Siler. 2015. Preliminary screening of natural history collections for historical presence of amphibian infectious disease in Oklahoma. Society for the Study of Amphibians and Reptiles, Annual Meeting, Lawrence, KS (July 30–Aug. 3, 2015). [poster]
- **Watters, J.L.** and C.D. Siler. 2014. Quantifying curator success in life science natural history collections. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN (July 30–Aug. 3, 2014). [poster]
- **Watters, J.L.** 2006. Optimal foraging behavior and diet overlap in two ambush predators in southeastern Arizona: *Sceloporus jarrovi* and *Sceloporus virgatus*. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA (July 12–17, 2006). [oral]
- **Watters, J.L.** 2006. Investigations into optimal prey profitability and prey choice in two Sceloporine lizards in southeastern Arizona. Southwestern Association of Naturalists Annual Meeting, Colima, Mexico (April 13–15, 2006). [oral]

## Honors, Awards and Grants:

- Co-PI: The Nature Conservancy Oklahoma Department of Wildlife Conservation (ODWC) – A Biotic Inventory of the Pearl Jackson Ranch, Creek County, Oklahoma; an enumeration of the Bees and Odonates, Birds, Mammals, Reptiles and Amphibians, Vascular Plants, and the habitats in which they reside – \$281,006.00 (October 2023–December 2025)
- Sam Noble Museum – Head Curator Fund – \$400 (April 2023)
- Sam Noble Museum – Head Curator Fund – \$400 (May 2023)
- Co-PI: Department of Defense, Great Plains Cooperative Ecosystems Studies Unit – Monitoring population health and spatial ecology of the Texas horned lizard on Tinker Air Force Base, Oklahoma – \$179,000 (September 2021–August 2024)
- Co-PI: Oklahoma Department of Wildlife Conservation (ODWC) – Establishment of a viable headstart and release program for Texas Horned Lizards (*Phrynosoma cornutum*) in Oklahoma – \$222,052 (October 2020–December 2024)
- Sam Noble Museum – Head Curator Fund – \$500 (February 2020) [returned due to COVID-19]
- Co-PI: Oklahoma Department of Wildlife Conservation (ODWC) – Seasonal variation in emergent amphibian and turtle infectious diseases in Oklahoma and temporal risk assessment for wildlife conservation – \$109,070 (January 2020–June 2024)
- Co-PI: Oklahoma Department of Wildlife Conservation (ODWC) – Assessment of Texas Horned Lizard population status in western Oklahoma – \$89,972 (October 2019–June 2024).
- Co-PI: Department of Defense, Great Plains Cooperative Ecosystems Studies Unit – Monitoring and Management of the Texas Horned Lizard on Tinker Air Force Base, Oklahoma – \$111,452 (September 2018–August 2021)
- University of Oklahoma – Staff Development Fund – \$400 (June 2019)
- University of Oklahoma – Staff Development Fund – \$400 (February 2019)
- University of Oklahoma – Staff Development Fund – \$400 (April 2018)
- University of Oklahoma – Staff Development Fund – \$400 (June 2017)
- Sam Noble Museum – Head Curator Fund – \$400 (June 2017)
- Co-PI: Oklahoma Department of Wildlife Conservation (ODWC) – Detecting Native Aquatics Network (DNANet)—A novel biodiversity freshwater monitoring program for native aquatic and semi-aquatic species using Environmental DNA – \$134,235 (October 2016–June 2020)
- Co-PI: Oklahoma Department of Wildlife Conservation (ODWC) – Tracking the emergence of infectious disease among amphibian species of greatest conservation need—Amphibian surveys of Wildlife Management Areas in Oklahoma to determine current distribution, status, and health of native communities – \$89,560 (January 2015–December 2017)
- Co-PI: Oklahoma City Zoo, Conservation Action Now (CAN) – Seasonal variation in *Batrachochytrium dendrobatidis* (Bd) and Ranavirus detection in amphibians in central Oklahoma – \$2500 (January 2015–December 2015)
- University of Oklahoma – Staff Development Fund – \$400 (July 2015)
- University of Oklahoma – Staff Development Fund – \$400 (July 2014)
- Sam Noble Museum – Head Curator Fund – \$600 (July 2014)
- University of Oklahoma – Staff Development Fund – \$160 (April 2014)
- Sam Noble Museum – Head Curator Fund – \$400 (August 2012)
- Sam Noble Museum – Head Curator Fund – \$400 (August 2011)
- Sam Noble Museum – Head Curator Fund – \$600 (May 2010)
- University of New Hampshire – Graduate School Travel Award – \$200 (April 2006)
- University of New Hampshire – Zoology Department Travel Award – \$150 (April 2006)
- American Museum of Natural History – SWRS Student Support Fund – \$564 (May 2005)
- American Society of Ichthyologists and Herpetologists – Gaige Fund – \$500 (April 2005)
- University of New Hampshire Graduate School – Summer Teaching Fellowship – \$3000 (July 2004)