

Peter B. Z. Berendzen
Curriculum Vitae

Department of Biology
University of Northern Iowa
McCullum Science Hall 93
Cedar Falls, Iowa 50614

Phone: (319) 273-7026
Fax: (319) 273-7125
e-mail: peter.berendzen@uni.edu

EDUCATION

- Ph.D.**, Fisheries (Ichthyology), University of Minnesota. 2005.
Dissertation title: Phylogeography of Central Highlands fishes: discovering cryptic diversity and ancient drainage patterns in North America.
- M.A.**, Systematics and Ecology (Ichthyology), University of Kansas. 1998.
Thesis title: Phylogenetic analysis of the order Pleuronectiformes using molecular and morphological evidence.
- B.S.**, Genetics, University of Kansas. 1995.
B.A., Slavic Languages and Literature (Russian), University of Kansas. 1995.

APPOINTMENTS

- Professor. Department of Biology, University of Northern Iowa. 2019 – present.
Associate Professor. Department of Biology, University of Northern Iowa. 2011 – 2019.
Assistant Professor. Department of Biology, University of Northern Iowa. 2005 – 2011.
Museum Associate. Bell Museum of Natural History, University of Minnesota. 2009 – present.

TEACHING EXPERIENCE (undergraduate and graduate students)

University of Northern Iowa

- Lecturer. BIOL 2052 General Biology: Cell Structure and Function. 2005 – 2018.
Lab instructor/coordinator. BIOL 2052 General Biology: Cell Structure and Function. 2005 – present.
Lab instructor. BIOL 2051 General Biology: Organismal Diversity. 2021 – present.
Lecturer. UNIV 2196 University Honors Seminar: Skin Deep. 2008, 2012.
Lecturer. BIOL 2100 Field Zoology of Vertebrates. 2010, 2015, 2020.
Lecturer. BIOL 3100 Evolution, Ecology and the Nature of Science. 2011 – present.
Lecturer. BIOL 4142/5142 Evolutionary Biology. 2011 – 2013, 2016 – present.

University of Northern Iowa: Study Abroad

- Course Leader. CAP 3140 Capstone in New Zealand. 2019.
Course Leader. BIOL 3174/CAP 3140 Galapagos: Biodiversity and Conservation. 2016, 2017, 2022.
Course Leader. BIOL 1059 UNIFI Galapagos: Biodiversity and Conservation. 2023
Course Leader. BIOL 3174 Research in Taiwan. 2011 – 2015.

University of Minnesota

- Lecturer. BIOL1009 General Biology. 2004 – 2005.
Teaching Assistant. BIOL 1002 Molecular and Cellular Perspectives. 2003 – 2004.
Teaching Assistant. BIOL 1009 General Biology. 2001 – 2003.
Teaching Assistant. FW/EEB 4136 Ichthyology. 2000 – 2002.

Haskell Indian Nations University

Teaching Assistant. Topics in Biology Seminar Series. 1997.

Teaching Assistant. Introduction to Vertebrate Zoology. 1996.

University of Kansas

Teaching Assistant. Biology 106 Introductory Biology Laboratory. 1995 – 1996.

GRADUATE STUDENTS (major advisor)

University of Northern Iowa (graduated)

2023. Borsh, M. (M.S.). Thesis title: Characterizing genetic diversity and testing for fisheries induced evolution in southeastern Kansas populations of bluegill (*Lepomis macrochirus*)
2022. Abels, J. (M.S.). Thesis title: Quantifying genomic diversity and growth in Iowa Bluegill.
2021. McDonnell, R. (M.S.). Thesis title: 24 and more: Using genome-wide SNPs to investigate the genetic diversity of Iowa Walleye (*Sander vitreus*) broodstock.
2021. Luiken, J. (M.S.). Thesis title: Influence of landscape on the population genetics of the rainbow darter (*Etheostoma caeruleum*) in glaciated and unglaciated environments.
2018. Sperstad, Z. (M.S.). Thesis title: Reconstructing the phylogeny and characterizing the patterns of molecular evolution of the tetraploid freshwater suckers (Cypriniformes: Catostomidae). Received third place Outstanding Master's Thesis Award, Graduate College.
2018. Wieman, A. (M.S. Environmental Sciences). Thesis title: Conservation genetics and habitat associations of *Rhinichthys cataractae*, a fish of greatest conservation need in Iowa.
2014. Kurtz, R. (M.S. Environmental Sciences). Thesis title: Understanding habitat associations and population dynamics of the black redhorse, *Moxostoma duquesnei*, a species of greatest conservation need in Iowa.
2014. Black, C. (M.S.). Thesis title: Morphometric analysis of skeletal shape variation across the Pleuronectiformes.
2013. Dugan, J. (M.S.). Thesis title: Phylogeography of the Ozark minnow, *Notropis nubilus*.
2012. Davis, D. (M.S.). Thesis title: The colonization and conservation genetics of the rainbow darter, *Etheostoma caeruleum*, in northeast Iowa.
2010. Stahl, A. (M.S.). Thesis title: Effects of the herbicide atrazine on the embryonic development of the African dwarf frog, *Hymenochirus boettgeri*.
2010. Stahl (Stanhope), B. (M.S.). Thesis title: Evolution of genome size in North American suckers (Catostomidae: Cypriniformes).
2009. Brooks, C. (M.S.). Thesis title: A phylogeographic analysis of fiddler crabs, *Uca longisignalis* and *U. pugnax*.

University of Northern Iowa (current)

Poss, Z. (M.S. beginning Spring 2025). Thesis topic: Population genetics of three species of amphibians colonizing restored wetlands in Northwest Iowa.

GRADUATE STUDENTS (committee member)

- Okwiri, B. (PhD student; Dr. Brook Fluker major advisor) Arkansas State University. Species status and population genomics of the Ouachita clade of the *Notropis rubellus* species complex.
- Mellett, M. (M.S., anticipated graduation Spring 2025). Thesis topic: Population genetics of bees colonizing restored tall grass prairies in Iowa using genome-wide SNP data.

2022. Bruns, C. (M.S.). Thesis title: Association between habitat and the genetic diversity of the Brown-belted Bumble Bee (*Bombus griseocollis*) in the agricultural landscape across Northeast Iowa
2021. Lashbrook, M. (M.S.). Thesis title: Community diversity influences selection on nutrient resorption in *Panicum virgatum*.
2014. Cooney, M. (M.S. Department of Geography). Thesis title: Modeling spatial demographic patterns of reindeer in the Siberian Arctic.
2013. Pfrimmer, J. (M.S.). Thesis title: Bird use of heterogeneous native prairie biofuel production plots.

UNDERGRADUATE STUDENTS (senior thesis research mentor)

University of Northern Iowa (graduated)

2021. Borsh, M. Thesis title: Landscape genetics of Iowa's threatened black redhorse. University Honors Program. Purple and Old Gold award from Biology.
2018. Schmidt, M. Thesis title: Rates and patterns of evolution in a duplicated genome in the family Catostomidae. University Honors Program. Purple and Old Gold award from Biology.
2015. Bork, R. Thesis title: Primer efficacy in the DNA barcoding of spiders. University Honors Program.
2014. Miller, N. Thesis title: Conservation genetics of the black redhorse, *Moxostoma duquesnei*, in northeast Iowa.
2013. Rinehart, H. Thesis title: Population genetics of the longnose dace, *Rhinichthys cataractae*, in northeast Iowa. University Honors Program.
2013. Samec, M. Thesis title: Genetic divergence across the Mississippi River in multiple taxa. University Honors Program.
2013. Scullin, E. Thesis title: Habitat preference of the longnose dace, *Rhinichthys cataractae*, in northeast Iowa. University Honors Program.
2012. Holmes, S. Thesis title: Morphometric analysis of *Notropis nubilus*, Ozark minnow. University Honors Program.
2012. Kosmicki, J. Thesis title: Using ecological niche modeling to resolve cryptic taxa within the greenside darter species complex. University Honors Program.
2011. Berge, K. Thesis title: Genetic variation of the East African small barb *Barbus paludinosus* within drainages of Ethiopia.
2011. Wieman, A. Thesis title: Population genetic analysis of the fiddler crab *Uca maracoani* from Brazil. Purple and Old Gold award from Biology.
2009. DeWitt, A. Thesis title: Timing of divergence of populations of North American freshwater fishes east and west of the Mississippi River.
2009. Warwick, A. Thesis title: What is up with fiddler crabs: does larval dispersal render genetic similarity in the disjunct distribution of *Uca minax* (*Uca*: Ocypodidae)?
2008. Feltz, J. Thesis title: Conservation genetics of the redbelted dace (*Clinostomus elongatus*) focusing on drainages within Minnesota.
2007. Barron, S. Thesis title: Testing molecular diversity with morphology: a morphometric and meristic analysis of the rosyface shiner species complex (*Notropis rubellus*).
2006. Brace, B. (Earth Science) Thesis title: Link between regional geomorphology and distribution pattern of the greenside darter *Etheostoma blennioides*.

University of Northern Iowa (current)

Post, A. (anticipated graduation Spring 2024) Thesis topic: Identifying sex specific genetic markers in the rainbow darter (*Etheostoma caeruleum*)

Klein, L. (anticipated graduation Spring 2025) Thesis topic: Phylogeography of the rainbow darter (*Etheostoma caeruleum*) using genome-wide SNP data. University Honors Program.

van de Mortel, E. (anticipated graduation Fall 2024) Thesis topic: Genetic diversity of Bluegill in Iowa based on genome-wide SNP data. University Honors Program.

PROFESSIONAL EXPERIENCE

University of Minnesota

Research Assistant. Department of Ecology, Evolution and Behavior. 2004.

Research Assistant. Minnesota Department of Natural Resources. 2002.

Curatorial Assistant. Bell Museum of Natural History Fish Collection. 2000 – 2001.

Research Assistant. Department of Fisheries, Wildlife, and Conservation Biology. 1999.

University of Kansas

Molecular Lab Technician. University of Kansas Natural History Museum. 1998 – 1999.

Research Assistant. Department of Systematics and Ecology. 1991 – 1994; 1995 – 1998.

Curatorial Assistant. University of Kansas Natural History Museum Fish Collection. 1996 & 1998.

FIELD EXPERIENCE

East African Freshwater Fishes

Collected freshwater fishes in Ethiopia with the Joint Ethio-Russian Biological Expedition. 2008.

North American Freshwater Fishes

Collected freshwater fishes throughout North America. 1995 – present.

NMFS, Alaska Fisheries Science Center

Volunteer Scientist. Triennial Groundfish Assessment Survey, Aleutian Islands Region. 1997.

AD-HOC JOURNAL REVIEWER

American Midland Naturalist, Aquatic Conservation, Conservation Genetics, Copeia, Ecography, Freshwater Biology, Journal of Biogeography, Journal of Fish Biology, Journal of Fish and Wildlife Management, Journal of Natural History, Marine Biology, Molecular Ecology, Molecular Phylogenetics and Evolution, Rivers Research and Applications, Transactions of the American Fisheries Society, Zoologica Scripta, Zoological Studies, Zootaxa

PROFESSIONAL MEMBERSHIPS

American Society of Ichthyologist and Herpetologists

Center for Global and Regional Environmental Research, University of Iowa (elected member)

SERVICE

University of Northern Iowa

Graduate Council, Graduate College. 2015-2018.

Distinguished Scholar Award Committee, Graduate College. 2017.

Tenure and Promotion Advisory Committee, College of Humanities, Arts and Sciences. 2015.

Professional Assessment Subcommittee, Member, Department of Biology. 2012-2014, 2019 - 2020.

Professional Assessment Subcommittee, Chair, Department of Biology. 2023-present.
Faculty Senate, College of Natural Sciences. 2010.
Molecular / Cell Biology Position Search Committee, Chair. Department of Biology. 2019.
Horticulturalist Search Committee. Department of Biology. 2019.
Biology Stockroom Manager Position Search Committee, Chair. Department of Biology. 2018.
Cell Biology Position Search Committee, Department of Biology. 2010, 2011.
Plant Biology Position Search Committee, Department of Biology. 2009.
Website Committee, Department of Biology. 2009.
Biological Sciences/Biotechnology Articulation Conference. Iowa Community Colleges and Regents Universities. University of Northern Iowa representative. 2008.
Publicity Committee, Department of Biology. 2007 – 2010.
Department Head Search Committee, Department of Biology. 2008.
Student Nature Society Faculty Advisor, Department of Biology. 2006 – 2016.
UNI Cycling Club Faculty Advisor. 2012 – 2015.
UNI Women's Ultimate Frisbee Club Faculty Advisor. 2012 – 2018.
Scholarship Committee, Department of Biology. 2005 – 2007, 2009 – present.
Graduate Committee, Department of Biology. 2020 – present.
Introductory Biology Sequence Curriculum Committee, Department of Biology. 2006.
Ecology and Systematics Emphasis Curriculum Committee, Department of Biology. 2006.

University of Minnesota

Introductory Biology Advisory Committee, College of Biological Sciences. 2004 – 2005.
Council on Liberal Education, University Committee. 2004 – 2005.
Teaching Assistant Award Selection Committee, College of Biological Sciences. 2003 – 2004.
Biological Sciences Policy and Review Council, Graduate School. 2002 – 2003.
Council of Graduate Students, Fisheries Graduate Program Representative. 2002 – 2003.

Iowa Department of Natural Resources

Wildlife Action Plan Fish Subcommittee. 2008 – 2015.
Genetics Committee Fisheries Research Division. 2022 - present

State of Iowa, Office of Energy Independence

Olson amendment group on the impacts of climate change in Iowa. 2009 – 2011.

National Science Foundation

Ad hoc grant reviewer, Division of Environmental Biology, Systematic Biology & Biodiversity Inventories Cluster. 2011, 2023.
Panelist. Division of Environmental Biology, Systematic Biology & Biodiversity Inventories Cluster. 2009, 2014.

TEACHING AWARDS

Nominated for Outstanding Graduate Faculty Teaching Award. 2013. Graduate College, UNI.
TriBeta Teaching Award. 2012. UNI chapter of the TriBeta National Biological Honor Society.
Nominated for Dean's Teaching Award. 2011. College of Natural Sciences, UNI.
University Book and Supply Outstanding Teaching Award. 2010. College of Natural Sciences, UNI.
Award for Outstanding Performance as a Teaching Assistant. 2001. College of Biological Sciences, University of Minnesota.

GRANTS AND FELLOWSHIPS (2011 – present)

- GT-seq genotyping of Walleye in Iowa. Fisheries Research Contract. Iowa Department of Natural Resources. \$5,000 awarded. 2024.
- Genome-wide SNP genotyping of Bluegill in Iowa, phase 2. Fisheries Research Contract. Iowa Department of Natural Resources. \$14,985 awarded. 2023.
- Establishing GT-seq protocols for Walleye genotyping. Fisheries Research Contract. Iowa Department of Natural Resources. \$14,005 awarded. 2023.
- Genome-wide SNP genotyping of Bluegill and Walleye in Iowa. Fisheries Research Contract. Iowa Department of Natural Resources. \$4,950 awarded. 2022.
- Furthering connections between core curriculum classes for biology and pre-health student through microscopy. CO-PI with T. Spradling, M. Clayton, M. Sliwinski and A. Wen. \$213,009 awarded. UNI match \$40,122. 2021.
- Application of genome-wide SNP data to understanding genetic variation of Bluegill in Iowa. Fisheries Research Contract. Iowa Department of Natural Resources. \$4,955 awarded. 2020.
- Professional Development Assignment, Graduate College, University of Northern Iowa. Fall 2020.
- Application of genome-wide SNP data on identification of brood stocks in Walleye. Fisheries Research Contract. Iowa Department of Natural Resources. \$4,960 awarded. 2019.
- Enhancing hands-on training in genetics and genomics. CO-PI with T. Abebe, M. Clayton, J. Jackson and T. Spradling. Roy J. Carver Charitable Trust. \$200,000 awarded. UNI match \$39,825. 2019.
- Influences of habitat heterogeneity on abundance and population genetic structure of the rainbow darter in northeastern Iowa. Small Wildlife Diversity Grant. Iowa Department of Natural Resources. \$2,500 awarded. 2018.
- The use of genome-wide SNP (single nucleotide polymorphism) data in the application of conservation genetics where conventional datasets fail. Capacity Building Seed Grant. Office of Research and Sponsored Programs, University of Northern Iowa. \$8,520 awarded. 2018.
- Faculty Summer Fellowship. Graduate College, University of Northern Iowa. \$3,367 awarded. 2017.
- Landscape genetics of the rainbow darter, *Etheostoma caeruleum*: a comparison of the Ozark Plateau with the upper Mississippi River basin. Faculty Research Activity Grant, College of Humanities, Arts and Sciences, UNI. \$1,106 awarded. 2017.
- Genetic identification of rusty crayfish in the Cedar River. CO-PI with E. Merten and D. McCullough. Invasive Species Program, Iowa Department of Natural Resources. \$22,307 awarded. 2014.
- Evolutionary significance of whole-genome duplication in the Catostomidae, a group of tetraploid fishes. PI. CO-PIs T. Abebe and A. Simons (University of Minnesota). UNI Capacity Building Large-Scale Project Grant; NSF EPSCoR. Office of Sponsored Programs, UNI \$15,355 awarded. 2014.
- Evolution of *Hox* gene clusters in North American suckers. UNI Capacity Building Small-Scale Project Grant. Office of Sponsored Programs, University of Northern Iowa. \$3000 awarded. 2013.
- Professional Development Assignment, Graduate College, University of Northern Iowa. Spring 2013.
- Establishing demographic patterns and conservation units of fishes of greatest conservation need in northeastern Iowa. State Wildlife Grants Program Iowa DNR and University of Northern Iowa Institutional Match. \$107,614 awarded. 2012.

PRESENTATIONS AT PROFESSIONAL MEETINGS (2011 - present)

Graduate student presenter = *; Undergraduate student presenter = **

19. *Borsh, M, B. Neely and P. Berendzen. Genetic effect of longer-term angling pressure on Bluegill populations in small impoundments in Kansas. Midwest Fish and Wildlife Conference, Des Moines, IA. February, 2022. Oral presentation.

18. *Abels, J, L. Bruce and **P. Berendzen**. Quantifying diversity and genotyping growth in Bluegill in Iowa. Midwest Fish and Wildlife Conference, Des Moines, IA. February, 2022. Oral presentation.
17. *McDonnell, R., R. Krogman and **P. Berendzen**. 24 and more: Using genomics to help improve Walleye stocking in Iowa. Midwest Fish and Wildlife Conference, Des Moines, IA. February, 2022. Oral presentation.
16. **Berendzen, P.** The application of genomics to fisheries management. Iowa chapter of the American Fisheries Society. Moravia, IA. March 2020. Oral presentation.
15. Black, C and **P. Berendzen**. Convergence of Body Depth and Jaw Length of the Skeleton in Flatfishes (Pleuronectiformes). Evolution. Providence, RI. July 2019. Oral presentation.
14. *Sperstad, Z., **P. Berendzen**, A. Simons, J. Armbruster, E. Lemmon and A. Lemmon. Phylogenomics of Catostomidae. JMIH. Austin, TX. July 2017. Poster presentation.
13. *Parks, J. and **P. Berendzen**. A comparison of the population genetic structure of the rainbow darter, *Etheostoma caeruleum*, in glaciated and unglaciated environments. JMIH. Austin, TX. July 2017. Poster presentation.
12. *Barden, C. and **P. Berendzen**. Genomic evolution in a tetraploid family of fishes (Cypriniformes: Catostomidae). JMIH. New Orleans, LA. July 2016. Poster presentation.
11. *Black, C. and **P. Berendzen**. The effect of phylogeny on morphological characteristics of the skeleton in Pleuronectiformes. JMIH. New Orleans, LA. July 2016. Poster presentation.
10. **Dreyer, A., C. Thurman and **P. Berendzen**. Who's your crawdaddy? Genetic identification of crayfish species of the Cedar River basin. National Conference on Undergraduate Research. Spokane, WA. April 2015. Poster presentation.
9. *Wieman, A. and **P. Berendzen**. Longnose dace in northeast Iowa. AFS North Central Division Rivers and Streams Technical Committee Meeting. Lake Milan, IL. March 2015. Oral Presentation by Berendzen.
8. * Calhoun, C and **P. Berendzen**. Genome duplication and evolution in a tetraploid family of fishes (Cypriniformes: Catostomidae). JMIH. Chattanooga, TN. August 2014. Poster presentation.
7. **Berendzen, P.** and R. Kurtz. Distribution, habitat preference and demographic patterns of *Moxostoma duquesnei* in Iowa. JMIH. Chattanooga, TN. August 2014. Oral presentation.
6. **Miller, N., R. Kurtz and **P. Berendzen**. Conservation genetics of the black redbhorse in northeast Iowa. National Conference on Undergraduate Research. Lexington, KY. April 2014. Poster presentation.
5. *Kurtz, R. and **P. Berendzen**. Establishing predictive large-scale habitat model using GIS for black redbhorse in northeast Iowa. AFS North Central Division Rivers and Streams Technical Committee Meeting. Lake Milan, IL. March 2013. Oral presentation.
4. *Kurtz, R. and **P. Berendzen**. Establishing predictive large-scale habitat model using GIS for black redbhorse in northeast Iowa. Iowa Chapter of AFS. Honey Creek State Resort, IA. February 2013. Oral presentation.
3. *Weiman, A., Rinhart, H. and **P. Berendzen**. Establishing demographic parameters and conservation units for the longnose dace, *Rhinichthys cataractae*, distributed in northeast Iowa. Iowa Chapter of AFS. Honey Creek State Resort, IA. February 2013. Oral presentation.
2. *Merner, M. and **P. Berendzen**. *Hox* gene evolution in North American suckers (Cypriniformes: Catostomidae), a tetraploid family of fishes. SICB. San Francisco, CA. January 2013. Oral presentation.
1. *Black, C. and **P. Berendzen**. The effect of phylogeny on morphological characteristics of the skeleton in the Pleuronectiformes. SICB. San Francisco, CA. January 2013. Oral presentation.

INVITED TALKS

5. Utilizing genetics and genomics to improve fisheries in Iowa. Presentation of the results of the Genetics Committee. Iowa Department of Natural Resources, All Fisheries Statewide Meeting. Boone, IA. March 8, 2024.
4. Riverscape genetics: interpreting spatial genetic variation of stream fishes in dynamic environments. Department of Natural Resource Ecology & Management Seminar Series, Iowa State University. Ames, IA. February 4, 2024.
3. Application of genomics to fisheries management and aquaculture. Iowa Department of Natural Resources, All Fisheries Statewide Meeting. Ames, IA. March 3, 2023.
2. Interpreting genetic variation in previously glaciated environments; implications for conservation of native fishes in the upper Mississippi River basin. Illinois Natural History Survey Seminar Series, University of Illinois. October 10, 2021.
1. Interpreting genetic variation in previously glaciated environments; implications for conservation. Conservation Sciences Seminar Series, University of Minnesota. April 20, 2018.

PUBLICATIONS

Graduate student coauthor = *; Undergraduate student coauthor = **

22. *Bruns, C. E., Demastes, J. W., **Berendzen, P. B.**, and Wen, A. The genetic structure of founding bumblebee populations in reconstructed prairie habitat three years after planting. *Restoration Ecology*. In revision.
21. **Berendzen, P. B.**, **Holmes, S. R., *Abels, J. R., and *Black, C. R. (2022). Morphological diversity within the Ozark minnow (*Notropis nubilis*: Leuciscidae). *Journal of Fish biology*. 100: 406-415.
20. *Luiken, J. M., Gamble, T., & **Berendzen, P. B.** (2021). Comparative riverscape genomics of the rainbow darter (*Etheostoma caeruleum*) in glaciated and unglaciated environments. *Ecology and evolution*, 11(24): 18305-18318.
19. *Black, C. R. & **Berendzen, P. B.** (2020) Shared ecological traits influence shape of the skeleton in flatfishes (Pleuronectiformes). *PeerJ*, 8, p.e8919.
18. *Wieman, A.C. & **Berendzen, P. B.** (2018) Spatial genetic variation and habitat association of *Rhinichthys cataractae*, the longnose dace, in the driftless area of the upper Mississippi River basin. *Conservation Genetics*. 19: 1367-1378.
17. Hundt, P. J., **Berendzen, P. B.** & Simons, A. M. (2017) Species delimitation and phylogeography of Studfish (*Fundulus catenatus* species group). *Zoological Journal of the Linnean Society*. 180: 461-474.
16. **Leon, M., *Merner, M. J., **Dreyer, A. A., **Cooper, A., **Scott, L., **Berendzen, P. B.**, McCullough, D. A., & Merten, E. C. (2016) Range expansion of the invasive rusty crayfish *Orconectes rusticus* (Girard, 1852) (Decapoda: Astacoidea) in northeastern Iowa (USA) rivers. *Journal of Crustacean Biology* 36: 99-104.
15. *Davis, D. J., *Wieman, A. C. & **Berendzen, P. B.** (2015) The influence of historical and contemporary landscape variables on the spatial genetic structure of the rainbow darter (*Etheostoma caeruleum*) in tributaries of the upper Mississippi River. *Conservation Genetics* 16: 167-179.
14. *Wieman, A. C., **Berendzen, P. B.**, **Hampton, K. R., **Jang, J., Hopkins, M. J., Jurgenson, J., McNamara, J. C., & Thurman, C. L. (2014) A panmictic fiddler crab from the coast of Brazil? Impact of divergent ocean currents and larval dispersal potential on genetic and morphological variation in *Uca maracoani*. *Marine Biology* 161: 173-185.

13. **Berendzen, P. B.**, *Dugan, J. F. & Gamble, T. (2010) Post-glacial expansion into the Paleozoic Plateau: Evidence of an Ozarkian refugium for the Ozark minnow *Notropis nubilus* (Teleostei: Cypriniformes). *Journal of Fish Biology* 77: 1114-1136.
12. **Berendzen, P. B.**, Olson, W. M. & **Barron, S. M. (2009) The utility of molecular hypotheses for uncovering morphological diversity in the *Notropis rubellus* species group (Cypriniformes: Cyprinidae). *Copeia* 2009: 661-673.
11. **Berendzen, P. B.**, Gamble, T. & Simons, A. M. (2008) Phylogeography of the bigeye chub, *Hybopsis amblops* (Teleostei: Cypriniformes): early Pleistocene diversification and post-glacial range expansion. *Journal of Fish Biology* 73: 2021-2039.
10. Gamble, T., **Berendzen, P. B.**, Shaffer, B., Starkey, D. E. & Simons, A. M. (2008) Species limits and phylogeography of North American cricket frogs (*Acris*: Hylidae). *Molecular Phylogenetics and Evolution* 48: 112-125.
9. **Berendzen, P. B.**, Simons, A. M., Wood, R. M., Dowling, T. E. & Secor, C. L. (2008) Recovering cryptic diversity and ancient drainage patterns in eastern North America: historical biogeography of the *Notropis rubellus* species group (Teleostei: Cypriniformes). *Molecular Phylogenetics and Evolution* 46: 721-737.
8. Golubtsov, A. S. & **Berendzen, P. B.** (2005) A review of the small barbs (*Barbus*, Cyprinidae) with a serrated dorsal spine from Ethiopia, with a discussion of the origin of forms with a reduced dorsal spine from the White Nile and Omo river tributaries. *Journal of Ichthyology* 45, Suppl. 1: S58-S88.
7. Simons, A. M., **Berendzen, P. B.** & Mayden, R. L. (2003) Molecular systematics of North American phoxinin genera (Actinopterygii: Cyprinidae) inferred from mitochondrial 12S and 16S ribosomal RNA sequences. *Zoological Journal of the Linnean Society* 139: 63-80.
6. **Berendzen, P. B.**, Simons, A. M. & Wood, R. M. (2003) Phylogeography of the northern hogsucker, *Hypentelium nigricans* (Teleostei: Cypriniformes): genetic evidence for the existence of the ancient Teays River. *Journal of Biogeography* 30: 1139-1152.
5. **Berendzen, P. B.** & Dimmick, W. W. (2002) Phylogenetic relationships of Pleuronectiformes based on molecular evidence. *Copeia* 2002: 642-652.
4. Dimmick, W. W., **Berendzen, P. B.** & Golubtsov, A. S. (2001) Genetic differentiation of three *Barbus* (Cyprinidae) morphotypes from the Genale River, Ethiopia. *Copeia* 2001: 1123-1129.
3. Golubtsov, A. S. & **Berendzen, P. B.** (1999) Morphological evidence for the occurrence of two electric catfish (*Malapterurus*) species in the White Nile and Omo-Turkana systems (East Africa). *Journal of Fish Biology* 55: 492-505.
2. Golubtsov, A. S., **Berendzen, P. B.** & Annett, C. A. (1999) Morphological variation and taxonomic status of Altai osmans, *Oreoleuciscus*, from the upper reaches of the Ob River system. *Journal of Fish Biology* 54: 878-899.
1. Tang, K. L., **Berendzen P. B.**, Wiley, E. O., Morrissey, J. F., Winterbottom, R. & Johnson, G. D. (1999) The phylogenetic relationships of the suborder Acanthuroidei (Teleostei: Perciformes) based on molecular and morphological evidence. *Molecular Phylogenetics and Evolution* 11: 415-425.

BOOK CHAPTERS

2. **Berendzen, P. B.** & K. W. Conway. Gobiesocidae: clingfishes. *In: Freshwater Fishes of North America Volume 3*, M. L. Warren & B. M. Burr (Eds). Baltimore, Johns Hopkins University Press. Submitted.
1. **Berendzen, P. B.** (2020) Chapter 23 Gadidae (Gadinae and Lotinae): codfishes and cuskfishes. *In: Freshwater Fishes of North America Volume 2*, M. L. Warren & B. M. Burr (Eds). Baltimore, Johns Hopkins University Press.

TECHNICAL REPORTS

7. *McDonnell, R. A. & **Berendzen, P. B.** (2021) Report on the genetic diversity of 2019 Iowa Walleye Broodstock. Final report to Fisheries Research, Iowa Department of Natural Resources.
6. **Berendzen, P. B.**, *Kurtz, R. R. & *Wieman, A. C. (2015) Establishing demographic parameters and conservation units of fishes of greatest conservation need distributed in northeast Iowa. Final report for the State Wildlife Grants Program, Wildlife Diversity Program, Iowa Department of Natural Resources.
5. **Leon, M., **Cooper, A., **Corbett, J., **Dreyer, A., *Merner, M., **Scott, L., **Stevens, H., **Berendzen, P.**, McCullough, D., Thurman, C., & Merten, E. (2015) Rusty crayfish distribution and genetics in the middle Wapsipinicon River and upper Cedar River drainages of northeast Iowa, USA. Final report to the Invasive Species Program, Iowa Department of Natural Resources.
4. *Davis, D. J., *Wieman, A. C. & **Berendzen, P. B.** (2014) The influence of historical and contemporary landscape variables on the spatial genetic structure of the rainbow darter (*Etheostoma caeruleum*) in northeast Iowa. Final report to the Iowa Department of Natural Resources, Wildlife Diversity Small Grants Program.
3. Iowa Climate Change Impacts Committee [**Berendzen, P. B.**, Cruse, R. M., Jackson, L. L., Mulqueen, R., Mutel, C. F., Osterberg, D., Rogovska, N. P., Schnoor, J. L., Swenson, D., Takle, E. S., & Thorne, P. S.] (2011) Climate Change Impacts on Iowa 2010. Report to the Governor and the Iowa General Assembly.
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