

Lauren M. Pintor

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School of Environment & Natural Resources
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Education

- 2007 Ph.D. Ecology, University of California-Davis. Dissertation: The influence of invader traits and community characteristics on the invasion success of an exotic crayfish. Advisor: Dr. Andrew Sih.
- 2000 M.S., Natural Resources & Environmental Sciences. University of Illinois, Urbana-Champaign. Thesis: The effect of drought on species interactions, behavior and habitat use by the Hine's Emerald dragonfly, *Somatochlora hineana*. Advisor: Dr. Daniel A. Soluk.
- 1997 B.S., Ecology, Ethology & Evolution. University of Illinois, Urbana-Champaign.

Professional Experience

- Jan 2012 – present Assistant Professor, The Ohio State University, School of Environment & Natural Resources.
- Dec 2010 – Dec 2011 Postdoctoral Research Associate, University of Illinois, Urbana-Champaign. Advisor: Dr. Alison Bell.
- May 2009 – Dec 2010 Postdoctoral Research Associate, University of Georgia, Odum School of Ecology. Advisor: Dr. Jeb Byers
- Sept 2007 – May 2009 National Science Foundation Postdoctoral Fellow, University of Illinois-Chicago. Advisor: Dr. Joel Brown.

Publications

(*denotes undergraduate author, **denotes graduate student author)

Reisinger, L.S., M.G. Glon** & **L.M. Pintor**. In review. Divergence in foraging and predator avoidance across native and non-native populations of crayfish. **Biological Invasions**, In review.

Hostert, L.E.** , **L.M. Pintor** & J.E. Byers. 2018. Sex, size and prey caloric value affects diet specialization and consumption of an invasive prey by a native predator. *Current Zoology*, zoy076, <https://doi.org/10.1093/cz/zoy076>

- Kinney*, K.A., **L.M. Pintor** & J.E. Byers. 2018. Does predator-driver, biotic resistance limit the northward spread of the non-native green porcelain crab, *Petrolisthes armatus*? *Biological Invasions*, <https://doi.org/10.1007/s10530-018-1821-1>
- Glon, M.G., L.S. Reisinger, & **L.M. Pintor**. 2018. Biogeographic differences between native and non-native populations of crayfish alter species coexistence and trophic interactions in mesocosms. *Biological Invasions*, <https://doi.org/10.1007/s10530-018-1788-y>
- Oldham, R.C.*, **L.M. Pintor**, & S.M. Gray. 2018. Behavioral differences within and among populations of an African cichlid found in divergent and extreme environments. *Current Zoology*, zoy027, <https://doi.org/10.1093/cz/zoy027>.
- Pintor, L.M.** & J.E. Byers. 2015. Do native predators benefit from non-native prey? *Ecology Letters*, 18(11): 1174-1180.
- Pintor, L.M.** & J.E. Byers. 2015. Individual trait variation in a native predator affects its consumption of a novel, non-native prey. *Behavioral Ecology* 26(3): 797-804.
- Pintor, L.M.**, K.M. McGhee, D. Roche and A.M. Bell. 2014. Individual variation in foraging behavior reveals a trade-off between flexibility and performance of a top predator. *Behavioral Ecology & Sociobiology*, 68(10): 1171-1722.
- K.M. McGhee, **L.M. Pintor** and A.M. Bell. 2013. Reciprocal behavioral plasticity and behavioral types during predator-prey interactions *The American Naturalist* 182(6): 704-717.
- Byers, J.E., W.G. McDowell, S. Robertson, R. Haynie, **L.M. Pintor** & S.B. Wilde. 2013. Climate and pH predict the spread of the invasive apple snail (*Pomacea insularum*) in the southeastern United States. *PLOS One*, 8(2): e56812.
- McGhee, K.E., **L.M. Pintor** & A.M. Bell. 2012. Maternal exposure to predation risk decreases offspring survival in threespined sticklebacks. *Functional Ecology*, 26(4): 932-940.
- Pintor, L.M.**, J.S. Brown and T.L. Vincent. 2010. Evolutionary game theory as a framework for studying biological invasions. *The American Naturalist*, 177(4): 410-423.
- Pintor, L.M.** & A. Sih. 2010. Scale dependent effects of native species richness, prey availability and disturbance on the invasion success of an exotic predator. *Biological Invasions* 13(6): 1357-1366.
- Sih, A., D. I. Bolnick, B. Luttbeg, J. L. Orrock, S. D. Peacor, **L. M. Pintor**, E. L. Preisser, J. S. Rehage, and J. R. Vonesh. 2010. Predator-prey naivete, antipredator behavior, and the ecology of predator invasions. *Oikos* 119(4): 610-621.
- Pintor, L.M.**, A. Sih & J.L. Kerby 2009. Behavioral correlations provide a mechanism for explaining high invader densities and increased impacts on native prey. *Ecology* 90(3):581-587
- Pintor, L.M.** & A. Sih. 2009. Growth & behavior differences between native and introduced populations of an invasive crayfish. *Biological Invasions*: 11(8): 1895-1902

Pintor, L.M., A. Sih & M.L. Bauer*. 2008. Differences in aggression, activity and boldness between native and introduced populations of an invasive crayfish. *Oikos* 117: 1629-1636.

Ajie, B.V., **L.M. Pintor**, J. Watters, J.L. Kerby, J.I. Hammond, A. Sih. 2006. A framework for determining the fitness consequences of antipredator behavior. *Behavioral Ecology* 18: 267-270.

Pintor, L.M. & D.A. Soluk. 2006. Persistence of an endangered species facilitated by the presence of a predator. *Biological Conservation* 130: 584-591.

Soluk, D.A., **L.M. Pintor** & J.D. Hoekstra. 1999. Dragonflies: Winged Jewels of the Wetland. Brookfield Zoo. Wetlands: Exploring our living natural history. P. 4-9.

Grants & Contracts

National Science Foundation. August 2018. Environmental drivers of intraspecific variation in animal behavior and consequences for ecosystem functions. NSF EAGER Program. PIs: Dr. Lindsey Reisinger, Dr. Lauren M. Pintor; Co-PI: Dr. AJ Reisinger. **Funded: \$299,867.**

Environmental Protection Agency. November 2017. Development of a multi-scale management tool for predicting and mitigating HABs in Ohio River watersheds. Lead PI: Dr. Mazeika Sullivan; Co-PI's: Dr. Lauren M. Pintor, Dr. Kai Zhao. **Funded: \$681,343.**

National Science Foundation. July 2017. Key drivers and functional significance of sensory and behavioural trait divergence across multiple environmental stressors in an African cichlid. Lead PI: Dr. Suzanne Gray, Co-PI: Dr. Lauren M. Pintor. **Funded: \$494,059.**

National Science Foundation. February 2017. What factors influence adaptive foraging on novel, invasive prey?: The roles of evolutionary history, alternative prey, and learning. Lead PI: Dr. Lauren M. Pintor, Co-PI: Dr. Jeb Byers (U-Georgia). **Submitted, unfunded.**

U.S. Geological Survey/Ohio Water Resources Center. October 2016. Can restoration of coastal wetlands in Lake Erie effectively increase nutrient retention while maintaining high biodiversity? **Submitted, Not funded: \$23,448.**

National Science Foundation. August 2015. The role of intraspecific trait variation in the consumption of novel, invasive prey: implications for the evolution of diet breadth and biological invasion. Lead PI, Co-PI Dr. Jeb Byers (U-Georgia). **Submitted August 2015, unfunded.**

Ohio Small Grain and Corn Marketing Programs. (2015 – present) Sources and fates of nutrients in non-agricultural Ohio surface waters. Co-PIs: Dr. Mazeika Sullivan, Dr. Kris Jaeger, Dr. Kai Zhao. **Funded: \$552,301.**

Aquatic Ecosystems Restoration Foundation. (2015 – present) Evaluating the impacts of aquatic, invasive plants on threatened and endangered species and their associated habitat. **Funded: \$25,499.**

Ohio Agricultural Research and Development Center. (2015 – present) Evaluating the trade-offs between improving water quality and maintaining biodiversity in coastal wetlands in the Western Lake Erie Basin. **Funded: \$49,977.**

National Science Foundation. (August 2014) The role of intraspecific trait variation in the consumption of novel, invasive prey: implications for the evolution of diet breadth and biological invasion. Lead PI, Co-PI Dr. Jeb Byers (U-Georgia). **Full proposal submitted, unfunded.**

The Nature Conservancy. (2014 – present) “Biological monitoring of macroinvertebrates at Crane Creek Pool 1 Restoration.” Co-PIs: Dr. Suzanne Gray. **Funded: \$14,981.25.**

The Nature Conservancy. (2014 – present) Biological monitoring of macroinvertebrates at Howard Farms wetland restoration. Co-PI: Dr. Suzanne Gray. **Funded: \$39,325.00.**

Aquatic Ecosystems Restoration Foundation. (2014 – present) Evaluating the impacts of aquatic, invasive plants on threatened and endangered species and their associated habitat. **Funded: \$4,886.**

OARDC Equipment Grant Program. (2014) YSI Water Quality Monitoring Network. Co-PIs: Dr. Suzanne Gray, Dr. Kris Jaeger & Dr. Mazeika Sullivan. **Funded: \$50,000.**

The Nature Conservancy. (2013 – 2015) USFWS Ottawa National Wildlife Refuge Restoration Project, Macroinvertebrate monitoring. **Funded: \$19,222.**

The Ohio State University, OARDC Equipment Grant. (2014) Aquatic mesocosm system. Co-PI with Dr. Mazeika Sullivan. **Funded: \$30,000.**

Georgia Department of Natural Resources. (2009-2011) "Predicting the spread and impacts of the invasive apple snail (*Pomacea insularum*) in Georgia." Co-PI's with Dr. James Byers, Dr. Rebecca Haynie, and Dr. Susan Wilde. **Funded: \$104,424.**

National Science Foundation, ADVANCE Postdoctoral Fellowship for Academic Diversity, (2007-2009). “Evolutionary game theory as a conceptual framework for invasion biology.” **Funded: \$83,800.**

National Sea Grant, (2003-2006) “Aquatic Nuisance Species: A multi-stage approach to understanding the invasion ecology of exotic crayfish in Northern and Southern California”. **Funded: \$258,929.** (Co-PI’s with Drs. Andrew Sih, Lee Kats and Jake Kerby)

University of California, Davis. (2005) Jastro Shields Research Grant, Summer **Funded: \$1800.**

University of California, Davis. (2003) Jastro Shields Research Grant, Summer (2003). **Funded: \$3000.**

University of Kentucky, (2001) Ribble Research Grant. **Funded: \$200.**

Teaching Activities

Assistant Professor, The Ohio State University.

- ENR 3300, Introduction to Forestry, Fisheries & Wildlife. Undergraduate course.
 - Spring 2013-2019, In-person delivery.
 - Spring 2017-2019, Distance Learning/Online delivery.
- ENR 5345, Methods in Aquatic Ecology, Fall 2012-2018. Upper-level undergraduate/graduate course.
- ENR 4980H: Honors Colloquium. Fall 2015-2018. Honors Course.
- ENR 5348, Conservation & Management of Aquatic Populations, Spring 2014, 2016, 2018. Upper-level undergraduate/graduate course.
- ENR 8998: Interdisciplinary Perspectives of Biological Invasions, Spring 2013. Graduate Level Seminar.
- EEOB 1910, Introduction to Aquatic Biology, Summer 2013, 2014. Taught at OSU's/Ohio Sea Grant's Stone Laboratory.

Associate Instructor, University of Illinois-Chicago.

- Interdisciplinary Perspectives on Biological Invasions, Fall 2008. Graduate Course.

Associate Instructor, University of California-Davis,

- General Ecology, Fall 2006. Upper-level undergraduate/graduate course.

Teaching Consultant, (2006-2007) Teaching Resources Center, University of California-Davis. 2006-2007.

- Provided in classroom evaluations and consultations for TAs on campus.
- Organized and led TA training workshops for new TAs.
- Created and ran professional development workshop series.
 - "Critical Teaching": Teaching critical thinking in the classroom, through assignments and in thesis statements.
 - "Transforming from TA to Teacher": developing a teaching philosophy, diversity in the classroom, classroom management, and using technology to create dynamic lectures (including use of podcasting, clickers/personal response systems and tablet PCs).

Graduate Teaching Assistantships

- Environmental Law, University of California-Davis, Spring 2007.
- General Ecology. University of California-Davis, Fall 2002-2007, Winter 2006 & 2007.
- Limnology, University of California-Davis, Spring 2002.
- Wildlife Conservation, University of California-Davis, Fall 2001.
- Introductory Biology, University of Kentucky, Fall 2000, Spring 2001.

Fellowships and Awards

The Ohio State University, College of Food, Agriculture & Environmental Science, Rodney F. Plimpton, Outstanding Young Teacher Award. (Spring 2017)

Top 3 Reviewers for 2013, Behavioural Ecology (Journal).

NSF ADVANCE Postdoctoral Research Fellowship for Academic Diversity, Women in Science and Engineering System Transformation Program, University of Illinois-Chicago. (2007-2009)

University of California, Davis. Chancellor's Teaching Fellowship, (2006-2007)

Outstanding Graduate Teaching Award, University of California, Davis. (2005-2006)

Ohio Valley Entomological Association, Best Student Paper Award. (2001)

North American Benthological Society, Conservation Research Award. (2000)

University of Illinois, Urbana-Champaign, Program in Ecology & Evolutionary Biology Graduate Symposium, Best Overall Talk, (2000)

Popular Press Coverage

Conservation Magazine. "Predators know invasive species are a sometimes food." By Sarah DeWeerd. October 20, 2015. University of Washington.

Wide Open Spaces. "Invasive species only 'junk food' for native predators. By Craig Raleigh. October 19, 2015.

United Press International. "For predators, invasive species are like junk foods." By Brooks Hays. October 14, 2015.

OSU News, "Invasive species as junk food for predators." By Pam Frost Gorder. October 14, 2015.

Seeds of Science/Roots of Reading. "Explaining Dragonflies." by Suzanna Loper. 2010. Published by Delta Education, LLC & University of California-Berkeley.

Science News, "Crouching Scientist, Hidden Dragonfly." August 2006, 170(7): 104-105.

Invited Seminars

Pennsylvania State University, Department of Biology, Spring 2019.

Goshen College, Department of Biology, Fall 2018.

University of Windsor, Great Lakes Institute for Environmental Research, Fall 2016.

The Ohio State University, Evolution, Ecology & Organismal Biology, Spring 2016.

Case Western University, Department of Biology, Fall 2015

Indiana State University, Department of Biology, Fall 2014

University of South Dakota, Department of Biology, Spring 2013

The Ohio State University, School of Environment & Natural Resources, Winter 2011, Spring 2013

Stanford University, Department of Biology, Winter 2011

University of Maryland, Department of Entomology, Winter 2011

Loyola University-Chicago, Department of Biology, Winter 2010 & 2011

DePaul University, Department of Biology, Winter 2011

Arizona State University, Department of Biology, Fall 2010

University of Nebraska-Lincoln, School of Natural Resources, Spring 2010

California Polytechnic University, Department of Biology, Spring 2010
Portland State University, Department of Biology, Spring 2009
Lake Forest College, Department of Biology, Spring 2009
University of Illinois-Chicago, Department of Biological Sciences, Spring 2009
University of Illinois, Urbana-Champaign, Department of Animal Biology, Fall 2008

Recent Presentations (*denotes undergraduate author)

Berg, EA, LM Pintor (2019) The effect of hydrological restoration on nutrient concentrations and macroinvertebrate communities in Lake Erie coastal wetlands. Midwest Fish & Wildlife Conference, Invited Special Session, Cleveland, Ohio. United States.

Meyer, SC, CA Johnson, LM Pintor (2019) Giving Up Density as an approach to identify a difference in foraging behavior between native and invasive crayfish species. Society for Integrative & Comparative Biology. Tampa, Florida. United States.

Kinney, KA, LM Pintor, JE Byers (2018) Does density-dependent predation on a non-native prey facilitate its escape from natural enemies? Ecological Society of America. New Orleans, Louisiana. United States.

Reisinger, L.S., M.G. Glon, L.M. Pintor (2018) Biogeographic differences in the tradeoff between foraging and predator avoidance across native and non-native populations of two crayfish. Ecological Society of America. New Orleans, Louisiana. United States.

Czaja, R., K Pocock, KC Stefanik, LM Pintor, SMP Sullivan (2018) Associations between macroinvertebrate communities and nutrient concentrations in Ohio streams and reservoirs. Society for Freshwater Science. Detroit, Michigan. United States.

Kenly, T, SMP Sullivan, KC Stefanik & LM Pintor (2018) Variability in invertebrate trophic networks along stream nutrient gradients. Society for Freshwater Science. Detroit, Michigan. United States.

Stefanik, KC, SMP Sullivan, LM Pintor, K Zhao. (2018) Relationships between physical and chemical water quality across land uses of southern Ohio. Society for Freshwater Science. Detroit, Michigan. United States.

Kinney, KA, LM Pintor, JE Byers (2018) Does density-dependent predation on a non-native prey facilitate its escape from natural enemies? Benthic Ecology Society. Corpus Christi, Texas. United States.

Crosby, C., LM Pintor, JE Byers (2018) The role of individual learning in the consumption of the non-native green porcelain crab by native predators. Benthic Ecology Society. Corpus Christi, Texas. United States.

Pintor, LM, KA Kinney, JE Byers. (2018) Does predator-driven, biotic resistance limit the northward spread of the green porcelain crab, *Petrolisthes armatus*? Gordon Research

Conference & International Forum on Predator-Prey Interactions. Ventura, California. United States.

Stefanik, K, MP Sullivan, LM Pintor, K Zhao. (2017) Variability in sources and fates of nitrogen and phosphorous in catchments of the Ohio River basin. Society of Freshwater Science. Raleigh, North Carolina. United States.

Kinney, KA, LM Pintor. (2017) Does biotic resistance from predation limit the northward expansion of the non-native, invasive green porcelain crab, *Petrolisthes armatus*? Benthic Ecology Society. Myrtle Beach, South Carolina. United States.

Crosby, C, LM Pintor. (2017) The impact of dietary behavior of native predators on green porcelain crab invasion success in oyster reef communities. Benthic Ecology Society. Myrtle Beach, South Carolina. United States.

Berg, EA, A Coburn & LM Pintor. (2017) Identifying short-term trade-offs between biodiversity and ecosystem function following restoration of Lake Erie coastal wetlands at the Ottawa National Wildlife Refuge. Annual Meeting of the Water Management Association of Ohio.

Coburn, A*, EA Berg & LM Pintor. (2017) Trade-offs between plant diversity and ecosystem function in restored and unrestored Lake Erie coastal wetlands. Annual Meeting of the Water Management Association of Ohio. **Awarded Runner Up for Best Student Presentation.

Reisinger, L, M Glon & LM Pintor. (2017) Divergence in life history traits during range shifts: examples from crayfish introductions. American Fisheries Society. Tampa, Florida. United States.

Pintor, L.M. & J.E. Byers. Adaptive foraging by an invasive filter-feeding consumer alters the indirect effects of a native predator on aquatic resources. Invited Special Session on Invasive Species & Food Webs at the Ecological Society of America's Annual Meeting. August 2016, Fort Lauderdale, Florida.

Johnson, C.A. & L.M. Pintor. The indirect effects of biological invaders as a novel prey for a native predator. Ecological Society of America's Annual Meeting. August 2016, Fort Lauderdale, Florida.

Odegard, J.L., S.M. Gray & L.M. Pintor. The role of functional diversity in biotic resistance of exotic fishes and invertebrates in coastal wetlands. International Association for Great Lakes Research Annual Meeting. June 2016. Guelph, Ontario.

Pintor, L.M. Invasive Species as Novel Prey for Native Predators: When Do Predators Benefit? Gordon Research Conference on Predator-Prey Interactions. January 2016. Ventura Beach, California. Oral presentations by invitation only.

Pintor, L.M. & J.E. Byers. Individual variation in predator behavior and demographics affects consumption of a non-native prey. Ecological Society of America. Baltimore, MD. August 2015.

Pintor, L.M. & J.E. Byers. Meta-analysis reveals a positive effect of non-native prey on native predator populations. Ecological Society of America. Sacramento, CA. August 2014.

Pintor, L.M. & J.E. Byers. Individual trait variation in a native predator affects its consumption of a novel, non-native prey. Gordon Research Conference on Predator-Prey Interactions. Ventura, CA. January 2014.

Pintor, L.M. Animal personality & the success of invasive species. July 2013. Ohio Sea Grant, Stone Lab Research Brief, Gibraltar Island, Ohio.

Pintor, L.M. Population & community-level causes and consequences of biological invasions. November 2012, Ohio Biodiversity & Conservation Partnership, Research Review, Columbus, OH.

Pintor, L.M. & J.E. Byers. Meta-analysis reveals positive effects of non-native prey on native predators and suggests an additive nature of invasions. September 2012. EcoSummit, Columbus, OH.

Pintor, L.M., J. Brown & T.L. Vincent. Evolutionary game theory as a conceptual framework for invasion biology. August 2008. Ecological Society of America, Milwaukee, WI.

Pintor, L.M. & A. Sih. Density versus per capita impacts of an introduced crayfish on stream communities. August 2005 Ecological Society of America, Montreal, Canada.

Pintor, L.M. and A. Sih. Variation in aggression level influences behaviors underlying impacts of an invasive crayfish. August 2004, Ecological Society of America, Portland, Oregon.

Pintor, L.M. and A. Sih. Interspecific variation in behavior and growth underlying geographic differences in species interactions of an introduced crayfish. August 2002, Ecological Society of America, Tucson, Arizona.

Pintor, L.M. and D.A. Soluk. The role of crayfish in the life cycle and ecology of an endangered dragonfly. Spring 2001 North American Benthological Society.

Pintor, L.M. and D.A. Soluk, Understanding the interaction of crayfish and the Hine's Emerald dragonfly larvae coexisting in crayfish burrows. August 2000, Ecological Society of America.

Pintor, L.M. and D.A. Soluk. Understanding the coexistence of crayfish and the Hine's Emerald dragonfly larvae in crayfish burrows: Mutual cohabitation or a dysfunctional family? Spring 2000, North American Benthological Society.

Pintor, L.M. and D.A. Soluk. Living with the enemy?: Crayfish burrows as refuge for an endangered dragonfly. Spring 1999, North American Benthological Society.

Miller, S.A.*, D.A. Soluk and L.M. Pintor. Comparison of the nocturnal behavior of aquatic insects under red and infrared light. Spring 1999. North American Benthological Society.

Pintor, L.M. and D.A. Soluk. Potential for terrestrial movement in dragonfly larvae during periods of drought. Spring 1998, North American Benthological Society.

Journal & Grant Referee Activity

Journals:

Ecology Letters, Biological Conservation, Conservation Biology, Behavioural Ecology, Biological Journal of the Linnean Society, Oikos, Knowledge and Management of Aquatic Ecosystems, Ecology, Israel Journal of Ecology & Evolution, Journal of Animal Ecology, Environmental Entomology, Journal of Great Lakes Research, Journal of Fish Biology.

Grants:

National Science Foundation: Population and Community Ecology Program and Behavioral Systems Program.

Graduate Student Research Mentoring

Serve as Major Advisor:

Becca Czaja, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2018 - present. PhD student co-advised with Dr. Mazeika Sullivan.

Bethany Williams, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2018 - present. PhD student co-advised with Dr. Suzanne Gray.

Krystal Pocock, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2018 - present. Master's student.

Liz Berg, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2016 – December 2018. Master's student. Thesis: Evaluating trade-offs between ecosystem function and biodiversity in restored and unrestored coastal wetlands.

Chelsea Crosby, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2015 – August 2018. Master's student. Thesis: Impacts of a non-native, invasive prey on native crab predators in nearshore oyster reef communities.

Kaitlin Kinney, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2015 – December 2017. Master's student. Thesis: Impacts of a non-native, invasive prey on native crab predators in nearshore oyster reef communities.

Jenna Odegard, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2014 - January 2017. Master's student. Thesis: The role of functional diversity in the invasion success of fish and invertebrates in Lake Erie coastal wetlands.

Christopher Johnson, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2013 – August 2016. Master's student. Thesis: The indirect effects of biological invaders as novel prey for a native predator.

Lauren Hostert, *Environment & Natural Resources Graduate Program, The Ohio State University*, August 2012 -2014. Master's student. Thesis: The role of individual variation in the consumption of non-native prey: implications for the evolution of diet specialization and biological invasions.

Served as Committee Member:

Doctoral Student (Dissertation Committee Member)

- 2017 - present Kate Donlan. The Ohio State University. School of Environment and Natural Resources.
- 2017 - present Meaghan Gade. The Ohio State University. School of Environment and Natural Resources.
- 2017 - present Chelsey Nieman. The Ohio State University. School of Environment and Natural Resources.
- 2016 - present Cory Becher. The Ohio State University. Ecology, Evolution and Organismal Biology.
- 2016 - present Rebecca Dillion. The Ohio State University. Ecology, Evolution and Organismal Biology.
- 2016 - present Kristen Diesburg. The Ohio State University. School of Environment and Natural Resources.
- 2012 - Present Leslie Rieck. The Ohio State University. School of Environment and Natural Resources.
- 2013 - 2015 Cassie May. The Ohio State University. Evolution, Ecology & Organismal Biology. The role of recruitment mechanisms in a freshwater fish. Graduated: 2015.

Masters Student (Thesis Committee Member)

- 2016 - Present Tiffany Atkinson. The Ohio State University. School of Environment and Natural Resources.
- 2017 - 2018 Julie Slater. The Ohio State University. School of Environment and Natural Resources.
- 2015 - 2018 Richard Oldham. The Ohio State University. School of Environment and Natural Resources.
- 2015 - 2018 Travonya Kenley. The Ohio State University. School of Environment and Natural Resources.
- 2015 - 2017 Martha Zapata. The Ohio State University. School of Environment and Natural Resources. Graduated 2017.
- 2015 - 2017 Jay Wright. The Ohio State University. School of Environment and Natural Resources. Graduated: 2017.
- 2014 Katie Rumora. The Ohio State University. School of Environment and Natural Resources. Graduated: 2014.
- 2013 - 2018 Alex Masheter. The Ohio State University. School of Environment and Natural Resources. Graduated: 2018.
- 2013 - 2016 Jeramy Pinkerton. The Ohio State University. Evolution, Ecology & Organismal Biology. Graduated: 2016.
- 2013 - 2014 Lauren Blyth. The Ohio State University. School of Environment and Natural Resources. Graduated: 2014.

2012 - 2013 Liane Swisher. The Ohio State University. School of Environment and Natural Resources.

Undergraduate Research Mentoring

Paul Acheson, The Ohio State University, Honors Research Distinction Student, Spring 2017 – present. Thesis: The Effects of Intraspecific Variation of Crayfish Behavior on Nutrient Cycling in Aquatic Environments. Awards: OSU, Ohio Agriculture Research & Development Center Seeds Research Grant (\$3300)

Krystal Pocock, The Ohio State University, Honors Research Distinction Student, Fall 2016 - present. Awards: OSU Undergraduate Research Office, Summer Research Fellowship (\$3500).

Lizzie Garcia, The Ohio State University, Research Distinction Student, Spring 2017 – present.

Alan Coburn, The Ohio State University, Research Distinction Student, Spring 2016 - present. Thesis: Trade-offs between biodiversity and ecosystem functions: Exploring the relationship between water level and plant diversity in restored and unrestored coastal wetlands along Lake Erie. Awards/Grants: Ohio Agriculture Research & Development Center Seeds Research Grant (\$3300), OSU Undergraduate Research Office, Summer Research Fellowship (\$3500).

Scott Meyer, The Ohio State University, Research Distinction Student, August 2015 - present. Thesis: Giving up density as an approach to identify a difference in foraging behavior between native and invasive crayfish species in Ohio.

Alec Mell, The Ohio State University, Research Distinction Student, August 2015 – December 2016. Thesis: Mechanisms underlying the consumption of a novel, invasive prey by a native predator in economically important oyster reef communities. Awards/Grants: Mayers Undergraduate Research Summer Fellowship (\$3500), Undergraduate Student Government Academic Enrichment Grant (\$500). Currently a MS student at Nova Southeastern University.

Erin O'Shaughnessey, The Ohio State University, Research Distinction Student, Spring 2013 – present. Thesis: Do generalist native predators benefit more from non-native prey? Currently a MS student at Loyola University.

Richard Oldham. The Ohio State University. School of Environment and Natural Resources. Research Distinction. Thesis: Behavioral differences between individuals and populations of an African cichlid found across environmental extremes. Graduated: 2015.

James Palus, The Ohio State University, Honors Research Student, May 2013 – May 2015. Thesis: The effect of N:P ratio on the occurrence of harmful algae blooms in a community-managed lake. Awards: OARDC Seeds Research Grant (\$3300), OSU Undergraduate Research Office's Summer Research Fellowship (\$3500), Undergraduate Student Government Academic Enrichment Grants (\$2000 total) & Sipp Research Grant. Currently a MS student at The Ohio State University.

Chloe Welch, The Ohio State University, Honors Research Student, August 2012 – May 2014. Thesis: The impact of invasive crayfish as bioturbators in stream ecosystem. Currently a permanent employee for Ohio EPA.

Ankur Patel, *University of Illinois-Chicago*, September 2008 – May 2009. Using patch-use theory and giving up densities to compare the diet preference between native and invasive crayfish. **Awarded Pasteur Award for outstanding undergraduate research project. Biology department's highest undergrad honor. Completed DDS at the University of Illinois-Chicago.

Sydney Osisoma, *University of Illinois-Chicago*, September 2008 – December 2008. Are invasive crayfish more bold to forage under predation risk than native crayfish?

Brett Hanshaw, *University of California-Davis*, September 2006 – December 2006. Evaluating bait-buckets as a selective filter of behavioral traits associated with invasive crayfish. Went on to complete a MS in Fisheries & Wildlife Conservation at Oregon State University.

Marissa L. Bauer, *University of California-Davis*. June 2003 – September 2005. Population variation in boldness to forage under predation risk among native and introduced populations of invasive crayfish. Went onto complete a MS in Natural Resources & Environmental Sciences at Chico State University. Permanent employee with USGS.

Christopher Mull, *University of California-Davis*. August 2003 – September 2005. Experimental testing of physical barriers to invasive crayfish dispersal in streams. Went on to complete a MS in Ecology and Evolution from Cal State-Long Beach. Currently PhD student at Simon Fraser U.

Megan Harns, *University of California-Davis*, January 2003 – July 2003. Geographic variation in aggressive behavior between native and introduced populations of invasive crayfish. Went on to complete a MS in Biology Education from UC-Davis.

Sabra Purdy, *University of California-Davis*, January 2003 – June 2003. Variation in aggression among introduced populations of signal crayfish. Currently PhD student in Ecology at UC-Davis.

Stephanie Miller, Howard Hugh's Fellow, *University of Illinois, Urbana-Champaign*, May-August 1998. Comparison of the nocturnal behavior of aquatic insects under red and infrared light. Went on to complete a MS in Ecology at Aurburn University.