

Jason Doll

Quantitative Fisheries Center
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EDUCATION

- 2017 – Present Post-Doctoral Research Associate (Dr. James Bence)
Quantitative Fisheries Center, Michigan State University, Lansing, MI
- 2012 – 2015 Ph.D., Environmental Science (Dr. Thomas Lauer)
Biology Department, Ball State University, Muncie, Indiana
Dissertation title: “Bayesian inference of fisheries and ecology models”
- 2001 – 2003 M.S., Aquatic Biology and Fisheries (Dr. Thomas Lauer)
Biology Department, Ball State University, Muncie, Indiana
Thesis title: “A Windows application to compute back-calculated lengths of fish from fish bony structures”
- 1997 – 2001 B.S., in Biology
Biology Department, Ball State University, Muncie, Indiana
Major: Aquatic Biology and Fisheries
Minor: Computer Applications
Undergraduate research project title: “Rock bass population dynamics in White River, Muncie, IN”

POSITIONS

- 2017 – Present Post-Doctoral Research Associate, Michigan State University
- 2016 – 2017 Instructor of Biology, Ball State University, Muncie, Indiana
(75% teaching & 25% research, 3/3 teaching load)
- 2014 – 2016 Adjunct faculty, Ball State University, Muncie, Indiana
- 2012 – 2015 Research Assistant, Ball State University, Muncie, Indiana
- 2010 – 2013 Owner/Operator, Fish Pro, Muncie, Indiana
- 2007 – 2012 Aquatic Biologist, Muncie Bureau of Water Quality, Muncie, Indiana
- 2006 – 2007 Research Biologist, Ball State University, Muncie, Indiana
- 2003 – 2006 Assistant Fisheries Biologist, Indiana Department of Natural Resources,
Winslow, Indiana
- 2003 Fisheries Aide, Indiana Department of Natural Resources, North Judson,
Indiana

TEACHING EXPERIENCE *indicates instructor of record, ¹partial course development, ²full course development

- 2017 North Carolina Wesleyan College
BIO224: Introduction to Environmental Science, Guest Lecturer fall
2017
Topic: Quantitative Fisheries Management
- 2016 – 2017 Instructor of Biology, Ball State University, Muncie, Indiana
*¹BIO112: Principles of Biology 2, 1 section fall 2016 and 4 sections
spring 2017
*¹BIO448: Biometry, 1 section fall 2016 and spring 2017

- *²BIO694: Statistical Modeling in Ecology, 1 section fall 2016
 ZOOL483: Wildlife Management, Guest Lecturer fall 2016
 Topic: Fishery Resources Management
- 2014 – 2016 Adjunct faculty, Ball State University, Muncie, Indiana
 *¹BIO448: Biometry, 1 section spring 2016
 *²BIO694: Statistical Modeling in Ecology, 1 section fall 2015
 *²BIO694: Statistical Modeling in Ecology, 1 section fall 2014
 ZOOL465: Fishery Resource Management, Guest Lecturer, spring 2016
 Topic: Index of Biotic Integrity

RESEARCH EXPERIENCE

- 2017 – Present Post-Doctoral Research Associate, Quantitative Fisheries Center, Michigan State University, East Lansing, Michigan
Research Topic: Spatial and temporal variation in growth and condition of Alewife *Alosa pseudoharengus* and Rainbow Smelt *Osmerus mordax* in Lake Huron.
Research Topic: Length structured – integrated stock assessment model of prey fish in Lake Huron.
Research Topic: Predicting occurrence and abundance of a sheet web weaver spider *Drapetisca alteranda* in a Wisconsin forest.
- 2016 – 2017 Instructor of Biology, Ball State University, Muncie, Indiana
Research Topic: Swimming performance of lentic and lotic populations of Cyprinidae sp.
Research Topic: The Branch Effect: Understanding multi-campus enrollment and student success.
Research Topic: Dynamics and Models of Yellow Perch *Perca flavescens* in Indiana waters of Lake Michigan.
- 2012 – 2015 Research Assistant, (Ph.D.) Ball State University, Muncie, Indiana
Research Topic: Stock recruitment dynamics of Walleye *Sander vitreus* and Moronid sp. in six major reservoirs of Indiana.
Research Topic: Bayesian yield-per-recruit analysis of Walleye *Sander vitreus* and Moronid sp. in six major reservoirs in Indiana.
Research Topic: Abiotic and biotic covariates of electrofishing capture probabilities of fishes in wadeable streams and the effect of schooling behavior.
Research Topic: Investigating Cyprinidae swimming performance.
Research Topic: Macroecology of North American fishes.
Research Topic: Dynamics and Models of Yellow Perch in Indiana waters of Lake Michigan.
- 2007 – 2012 Fisheries Biologist, Muncie Bureau of Water Quality, Muncie, Indiana
Research Topic: Evaluation of estrogenic compounds in White River, integrating field and laboratory experiments.
Research Topic: Investigating Smallmouth Bass *Micropterus dolomieu* population dynamics.
Research Topic: Long-term variability in the fish assemblage of White River.

Research Topic: Feasibility of a two-stage ditch to reduce nutrients and improve fish community health.

- 2006 – 2007 Research Biologist, Ball State University, Muncie, Indiana
Research Topic: Dynamics and Models of the Yellow Perch in Indiana waters of Lake Michigan.
- 2001 – 2003 Research Assistant, (M.S.) Ball State University, Muncie, Indiana
Research Topic: Software development to perform back-calculated lengths of fish from fish bony structures.
- 2000 – 2001 Research Assistant, (B.S.) Ball State University, Muncie, Indiana
Undergraduate Research Topic: Population dynamics of Rock Bass *Ambloplites rupestris* in White River, Muncie, Indiana.

AGENCY/PRIVATE SECTOR EXPERIENCE

- 2010 – 2013 Owner/Operator of Fish Pro
- Provided individual consultation to private pond owners.
 - Managed fish populations of private ponds by supplemental stockings or harvest strategies.
 - Managed pond vegetation using chemical and biological methods.
 - Installed/maintained aerators and fountains.
 - Operated a retail website to reach customers across the US.
- 2007 – 2012 Fisheries Biologist, Muncie Bureau of Water Quality, Muncie, Indiana
- Supervised three summer and one winter undergraduate students.
 - Surveyed the fish community of wadeable streams Delaware County, Indiana to evaluate biological integrity.
 - Authored annual report for the Muncie Sanitary District describing the results of biological monitoring.
- 2003 – 2006 Assistant Fisheries Biologist, Indiana Department of Natural Resources, Winslow, Indiana
- Supervised one summer undergraduate student.
 - Assisted the district fisheries biologist with annual fisheries surveys and vegetation control of state owned water bodies.
 - Authored annual reports summarizing fisheries surveys and providing management recommendations.

SERVICE

University

- 2016-2017: Co-advisor, Student subunit of the American Fisheries Society, Ball State University
- 2016-2017: Undergraduate student advisor, Ball State University
- 2016-2017: Student/Alumni Relations Committee, Ball State University
- 2016-present: Undergraduate research projects

- Crystal Nichols: Assessment of Swimming Performance of Bluntnose minnow *Pimephales notatus*
- Kaleb Eden: Assessment of Swimming Performance of Spotfin Shiner *Cyprinella spiloptera*
- Seth Bogue: White River Smallmouth Bass *Micropterus dolomieu* Population Dynamics
- 2015-present: Graduate committee member
 - Garrett Clevinger: Survival of localized White-Tailed Deer *Odocoileus virginianus* in Urban and Rural Southern Indiana.
 - Scott Zello: Multi-stressor effects of trace organic contaminants on *Physa acuta*
 - Keifer Tutus: Understanding the Ecological Impacts of Timber Harvest Techniques on the Bat Community in a Midwestern Hardwood Forest: Occupancy Analyses Using Bio-Acoustics
 - Garrett McDonald: Geographic and seasonal variation in songs of the Cerulean Warbler (*Setophaga cerulea*)
- 2015: Chair, Applied Statistics and R Users Group, Ball State University
- 2013: Chair, Applied Statistics and R Users Group, Ball State University

Professional

- Reviewer: Approximately 3-4 per year. Journal of Great Lakes Research, Methods in Ecology and Evolution, Ecology and Evolution, Public Library of Science, Fisheries Research, North American Journal of Fisheries Management, American Midland Naturalist, The Southwestern Naturalist, Journal of Applied Statistics, Environmental Monitoring and Assessment, Science of the Total Environment, Ecology of Freshwater Fish
- 2016 – 2017: Archives Committee Co-Chair, North Central Division, American Fisheries Society
- 2016 – 2017: Certification Committee Chair, Indiana Chapter of the American Fisheries Society
- 2015: Co-Chair, Bayesian inference in Fish and Wildlife Management Symposium, Midwest Fish and Wildlife Conference, Indianapolis, IN.
- 2014 – 2017: Walleye Technical Committee Representative, Indiana Chapter of the American Fisheries Society
- 2013: Chair, Bayesian inference in Great Lakes Research, Special Session, International Association of Great Lakes Research, Lafayette, IN.
- 2010 – 2011: Past-President Indiana Chapter of the American Fisheries Society
- 2009 – 2010: President, Indiana Chapter of the American Fisheries Society
- 2009: Chair, Annual Meeting Program Committee, Indiana Chapter of the American Fisheries Society
- 2008 – 2009: President Elect, Indiana Chapter of the American Fisheries Society
- 2008: Chair, Membership Committee, Indiana Chapter of the American Fisheries Society
- 2007 – 2008: Vice President, , Indiana Chapter of the American Fisheries Society
- 2005 – 2016: Communications Committee Chair, Indiana Chapter of the American Fisheries Society

PROFESSIONAL MEMBERSHIPS

American Fisheries Society (National Society, North Central Division, and Indiana Chapter),
International Association of Great Lakes Research, International Society for Bayesian Data Analysis

GRANTS AND AWARDS

External Research Grants

- **2016 – 2018, PI:** Dynamics and Models of the Yellow Perch in Indiana waters of Lake Michigan 2016-2018, **\$209,338**, Indiana Department of Natural Resources.
- **2014 – 2016, Co-author, senior personnel, and grant manager:** Walleye, Striped Bass, and Hybrid Striped Bass Population Dynamics: Modeling Data from the IDNR Fisheries Information System, **\$88,639**, Indiana Department of Natural Resources.
- **2013 – 2015, Co-author, senior personnel, and grant manager:** Estimating capture probabilities of common stream fish in the Eastern Corn Belt Plain, **\$23,148**, Indiana Water Research Center.

Honors/Awards/Certifications

- Best Professional Paper, Indiana AFS 2016
- Outstanding PhD Student in Environmental Science, 2015
- Ball State University Student Symposium Keys/Litten/Smith award for most compelling poster project, 2015
- Ball State University Department of Biology Outstanding Graduate in Field Sciences award, 2015
- Ball State University AFS Excellence in Fisheries Award, 2014
- Best Student Paper, Indiana AFS 2014
- Indiana Chapter of the American Fisheries Society student travel award, 2014: **\$200**
- North Central Division of the American Fisheries Society Joan Duffy travel award, 2014: **\$200**
- Biology Department Travel Award, 2014: **\$500**
- Ball State University Aspire Travel Award, 2014: **\$100**
- Best Student Paper, International Association for Great Lakes Research 2013
- Best Student Paper, Indiana AFS 2013
- Aquatic Biology and Fisheries Center Graduate Student of the Year 2013
- Best Student Paper, International Association for Great Lakes Research 2013: **\$500** and one year IAGLR membership
- Indiana Chapter of the American Fisheries Society student travel award, 2013: **\$200**
- North Central Division of the American Fisheries Society Joan Duffy travel award, 2013: **\$200**
- Recipient Indiana AFS Meritorious Service Award 2012
- Recipient NCD AFS Meritorious Service Award 2012
- Recipient AFS John E. Skinner travel award, August 2012
- Best Professional Poster, Indiana AFS, 2012
- Awarded “*Certified Fisheries Professional*” status by the AFS, 2011
- Best Professional Paper, Indiana AFS, 2011
- Best Professional Paper, Indiana AFS, 2010
- Best Professional Paper, Indiana AFS, 2007
- Ball State University AFS Excellence in Fisheries Award, 2003
- Awarded “*Associate Fisheries Professional*” status by the AFS, 2001
- Ball State University AFS Excellence in Fisheries Award, 2001

PUBLICATIONS *indicates undergraduate student*Manuscripts submitted and in review*

Turschak, B.A., S. Czesny, **J.C. Doll**, B. Grunert, T.O. Höök, J. Janssen, and H.A. Bootsma. *In revision*. Spatial variation in trophic structure of nearshore fishes in Lake Michigan as it relates to water clarity. Canadian Journal of Fisheries and Aquatic Sciences.

Nichols, C.*, A. Smith*, S. Huelsman*, C. Schemmel*, **J.C. Doll**, and S.J. Jacquemin. *In review*. Understanding complexities of swimming performance in two common species of minnow (Cyprinidae). Ohio Academy of Science.

Jacquemin, S.J., C.R. Junker, and **J.C. Doll**. *In review*. The Branch Effect: Understanding multi-campus enrollment and student success. Journal of College Student Retention.

Elias, D., **J.C. Doll**, & M.J. Bernot. *In review*. Spatial trends of atrazine and metolachlor abundance in streams: An analytical approach. Science of the Total Environment.

Published Peer Reviewed Manuscripts

Doll, J.C. and S.J. Jacquemin. *In press*. An introduction to Bayesian inference for fisheries scientists. Fisheries Magazine.

Walls, J.T., K.H. Wyatt **J.C. Doll**, E.M. Rubenstein, & A.R. Rober. 2018. Hot and Toxic: Temperature regulates microcystin release from Cyanobacteria. Science of the Total Environment 610-611:786-795. DOI: <https://doi.org/10.1016/j.scitotenv.2017.08.149>

Doll, J.C., T.E. Lauer, & S. Clark-Kolaks. 2017. Yield-per-recruit modeling of competing piscivores in a Midwestern reservoir. Fisheries Research 191:200-210. DOI: <https://doi.org/10.1016/j.fishres.2017.03.012>

Bernot, M.J., J.C. Becker, **J.C. Doll**, and T.E. Lauer. 2016. A national reconnaissance of trace organic compounds (TOCs) in United States lotic ecosystems. Science of the Total Environment 572:422-433. DOI: <https://doi.org/10.1016/j.scitotenv.2016.08.060>

Doll, J.C., T.E. Lauer, & S. Clark-Kolaks. 2015. Covariates of age-0 Walleye *Sander vitreus* fall recruitment from stocked populations in six Midwestern reservoirs. Fisheries Research 172:274-286. DOI: <https://doi.org/10.1016/j.fishres.2015.07.034>

Jacquemin, S.J., & **J.C. Doll**. 2015. Macroecology of North American suckers (Catostomidae): tests of Bergmann's and Rapoport's rules. Ecology and Evolution. DOI: <http://dx.doi.org/10.1002/ece3.1637>

Jacquemin, S.J., **J.C. Doll**, *D.A. Owen & M. Pyron. 2015. Effects of flow regime on growth rate in freshwater drum, *Aplodinotus grunniens*. Environmental Biology of Fishes 98(4):993-1003. DOI: <https://doi.org/10.1007/s10641-014-0332-x>

Doll, J.C. & T.E. Lauer. 2014. Comparing Bayesian and frequentist methods of fisheries models: Hierarchical catch curves. Journal of Great Lakes Research 40(Supplement 3):41-48. DOI: <https://doi.org/10.1016/j.jglr.2014.07.006>

Doll, J.C. & T.E. Lauer. 2014. Gill-net selectivity of Yellow Perch. Journal of Freshwater Ecology 29(2):279-288. DOI: <http://dx.doi.org/10.1080/02705060.2014.891084>

- Jacquemin, S.J., & **J.C. Doll**. 2014. Body size and geographic range do not explain long term variation in fish populations: A Bayesian phylogenetic approach to testing assembly processes in stream fish assemblages. *PLoS ONE* 9(4): e93522. DOI: <http://dx.doi.org/10.1371/journal.pone.0093522>
- Butler, L.R.*, **J.C. Doll**, J.L. Leet*, J.L. Meyer*, P. Moraga*, & M.S. Sepulveda. 2013. Impacts of sewage waste water on feminization and vitellogenin expression in male fathead minnows (*Pimephales promelas*) from Indiana waters. *Proceedings of the Indiana Academy of Science* 122:1-7.
- Doll, J.C.** & T.E. Lauer. 2013. Bayesian estimation of age and length at 50% maturity. *Transactions of the American Fisheries Society* 142(4):1012-1024. DOI: <http://dx.doi.org/10.1080/00028487.2013.793615>
- Jacquemin, S.J., & **J.C. Doll**. 2013. Long-term fish assemblages respond to habitat and niche breadth in the West Fork White River, Indiana. *Ecology of Freshwater Fish* 22(2):280-294. DOI: <http://dx.doi.org/10.1111/eff.12025>
- Ferguson, P.J., B.J. Bernot, **J.C. Doll**, & T.E. Lauer. 2013. Detection of pharmaceuticals and personal care products (PPCPs) in near-shore habitats of southern Lake Michigan. *Science of the Total Environment* 458-460:187-196. DOI: <https://doi.org/10.1016/j.scitotenv.2013.04.024>
- Forsythe, P.S., **J.C. Doll**, & T.E. Lauer. 2012. Abiotic and biotic correlates of yellow perch recruitment to age-2 in southern Lake Michigan, 1984-2007. *Fisheries Management and Ecology* 19(5):389-399. DOI: <http://dx.doi.org/10.1111/j.1365-2400.2012.00852.x>
- Doll, J.C.** 2011. Predicting biological impairment from habitat assessments. *Environmental Monitoring and Assessment* 182:259-277. DOI: <http://dx.doi.org/10.1007/s10661-011-1874-4>
- Doll, J.C.** 2010. Evaluation of morphology and secondary sexual characteristics of the bluntnose minnow: evidence of estrogenic compound exposure? *Proceedings of the Indiana Academy of Science* 119(2):130-143.
- Doll, J.C.** 2010. Changes in fish assemblages of Killbuck Creek and Pipe Creek, Delaware County, IN. *Proceedings of the Indiana Academy of Science* 119(1):52-63.
- Lauer, T.E., **J.C. Doll**, P.J. Allen, B. Breidert, & J. Palla. 2008. Changes in yellow perch length frequencies and sex ratios following closure of the commercial fishery and reduction in sport bag limits in southern Lake Michigan. *Fisheries Management and Ecology* 15:39-47. DOI: <http://dx.doi.org/10.1111/j.1365-2400.2007.00567.x>
- Agency/Management Reports*
- Buelmann, A, S. Clark-Kolaks, **J.C. Doll**. 2017. Estimating Walleye harvest utilizing a tag return study on Monroe Reservoir, Indiana. Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.
- Doll, J.C.** 2017. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Final Report for 2016-2017, Federal Aid Project F-18-R, Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.
- Lauer, T.E., & **J.C. Doll**. 2016. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Final Report for 2015-2016, Federal Aid Project F-18-R, Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.

- Lauer, T.E., & **J.C. Doll**. 2015. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Final Report for 2014-2015, Federal Aid Project F-18-R, Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.
- Lauer, T.E., & **J.C. Doll**. 2014. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Final Report for 2013-2014, Federal Aid Project F-18-R, Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.
- Lauer, T.E., & **J.C. Doll**. 2013. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Final Report for 2012-2013, Federal Aid Project F-18-R, Indianapolis, IN: Indiana Department of Natural Resources, Indianapolis.
- Doll, J.C.**, 2012. Fish community report for the White River and selected tributaries 2011. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.**, 2011. Fish community report for the White River and selected tributaries 2010. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.**, 2010. Fish community report for the White River and selected tributaries 2009. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.** 2010. Fish Community Report: Muncie Stormwater Watersheds 2009. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.**, A.T. Holloway, & R.C. Conrad. 2009. Fish Community Report: White River and Selected Tributaries 2008. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.** 2008. Fish Community Report: White River and Selected Tributaries. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.** 2008. Fish Community Report: Muncie Stormwater Watersheds. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.** 2007. Fish Community Report: White River and Selected Tributaries. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Doll, J.C.** 2007. Fish Community Report: Muncie Stormwater Watersheds. Muncie Sanitary District's Bureau of Water Quality. Muncie, Indiana.
- Lauer, T.E., & **J.C. Doll**. 2007. Dynamics and models of the yellow perch in Indiana waters of Lake Michigan and near-shore fish community characteristics. Report of Ball State University to Division of Fish and Wildlife, Indiana Department of Natural Resources, Indianapolis.

PRESENTATIONS *indicates undergraduate student

Platform presentation

- Doll, J.C.**, A. Bueltmann, & S. Clark-Kolaks. February 2017. Examining exploitation of Walleye in a Midwestern reservoir using a tag return study. Midwest Fish and Wildlife Conference, Lincoln, Nebraska.
- Doll, J.C.**, A. Bueltmann, & S. Clark-Kolaks. February 2017. Walleye exploitation in Monroe Reservoir with implications to yield-per-recruit modeling. Indiana American Fisheries Society Spring Conference, Muncie, Indiana.

- Doll, J.C.**, & S.J. Jacquemin. March 2016. Understanding macroecological trends in North American Suckers (Catostomidae). Indiana Chapter of the American Fisheries Society Spring Technical Conference. Bloomington, IN. – *Awarded Best Professional Paper*
- Doll, J.C.**, & T.E. Lauer. February 2015. Introduction to Bayesian inference and why the posterior is more interesting than p-values. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
- Doll, J.C.**, T.E. Lauer, & S. Clark-Kolaks. February 2015. Monroe Reservoir Walleye yield-per-recruit modeling. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
- Holloway, D., **J.C. Doll**, & S.J. Jacquemin. February 2015. Tolerance values as a method to describe fish assemblage health in the Wabash River Basin. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
- Doll, J.C.**, T.E. Lauer, & S. Clark-Kolaks. July 2014. Indiana Walleye recruitment: Evaluating predictors of stocking success. Fisheries Society of the British Isles, Hull, United Kingdom.
- Doll, J.C.**, T.E. Lauer, & S. Clark-Kolaks. July 2014. Covariates of walleye stocking success in Indiana. North Central Division of AFS, Walleye technical committee meeting. La Crosse, Wisconsin.
- Doll, J.C.**, & T.E. Lauer. May 2014. Comparing Bayesian and frequentist methods of fisheries models: Hierarchical catch curves. International Association for Great Lakes Research, Hamilton, Ontario.
- Doll, J.C.**, & T.E. Lauer. February 2014. Walleye *Sander vitreus* in Monroe Reservoir. Indiana Chapter of the American Fisheries Society. Muncie, IN – *Awarded Best Student Paper*
- Jacquemin, S.J., **J.C. Doll**, & M. Pyron. February 2014. Effects of Hydrology on Growth Rate in Large River Fishes. Indiana Chapter of the American Fisheries Society. Muncie, IN.
- Doll, J.C.**, & T.E. Lauer. June 2013. Introduction to Bayesian Inference. International Association of Great Lakes Research – Bayesian Inference in Great Lakes Research, International Association for Great Lakes Research, West Lafayette, IN. – *Awarded Best Student Paper*
- Doll, J.C.**, & T.E. Lauer. March 2013. Evaluating statistical paradigms to estimate mortality: Monroe Reservoir walleye. Indiana Chapter of the American Fisheries Society Spring Technical Conference. Lafayette, IN. – *Awarded Best Student Paper*
- Doll, J.C.**, & T.E. Lauer. September 2012. Bayesian estimation of yellow perch age and length at maturity. American Fisheries Society annual meeting, St. Paul, MN.
- Doll, J.C.**, & T.E. Lauer. February 2012. Bayesian estimation of age and length at maturity. Indiana Chapter of the American Fisheries Society Spring Technical Conference. Indianapolis, IN.
- Etchison, L.*, **J.C. Doll**, & M. Pyron. December 2011. Using side scan sonar with GIS to quantify substrate in White River, Muncie, IN. Midwest Fish and Wildlife Conference, Des Moines, Iowa.
- Doll, J.C.** February, 2011. Models for estimating animal abundance from depletion sampling. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Montgomery, IN. – *Awarded Best Professional Paper*

Doll, J.C. February, 2010. Predicting biological impairment from habitat. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Elkhart, IN. – *Awarded Best Professional Paper*

Doll, J.C., A.T. Holloway*, & R.C. Conrad. December 2008. Temporal variability of the fish community in response to water quality improvements in White River, 1983-2007. Midwest Fish and Wildlife Conference, Columbus, OH.

Forsythe, P., **J.C. Doll**, & T.E. Lauer. December 2008. Yellow perch recruitment in Lake Michigan. Midwest Fish and Wildlife Conference, Columbus, OH.

Lauer, T.E., **J.C. Doll**, H. Headley, & D.P. Hayes. September 2007. Density Dependant growth models for Lake Michigan yellow perch. Annual American Fisheries Society Conference, San Francisco, CA.

Doll, J.C., T.E. Lauer, H. Headley, & D.P. Hayes. February 2007. Yellow perch density dependant growth model. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Angola, IN.

Poster presentations

Doll, J.C. February 2017. Long-term trends in Yellow Perch *Perca flavescens* age-0 abundance in southern Lake Michigan. Midwest Fish and Wildlife Conference, Lincoln, Nebraska.

Nichols, C.*, S.J. Jacquemin, & **J.C. Doll**. March 2017. Comparing swimming performance of Bluntnose Minnows between lentic and lotic systems. Indiana Academy of Science. Indianapolis, Indiana.

Nichols, C.*, S.J. Jacquemin, & **J.C. Doll**. February 2017. Swimming performance of Bluntnose Minnows. Midwest Fish and Wildlife Conference, Lincoln, Nebraska.

Doll, J.C., & T. E. Lauer. March 2015. Evaluating covariates of capture probabilities in common stream fish of the Eastern Corn Belt Plain. Ball State University Student Symposium, Muncie, Indiana.

Doll, J.C., & T.E. Lauer. February 2015. Estimating capture probabilities of common stream fish in the Eastern Corn Belt Plain. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.

Beugly, J., C. Keitzer, & **J.C. Doll**. February 2015. Within-site variation of the Index of Biotic Integrity score and its relationship to the Qualitative Habitat Evaluation Index. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.

Holloway, D., & **J.C. Doll**. February 2015. Calculating tolerance values: A method for classifying individual fish species tolerance status based on presence/absence, abundance and habitat quality data. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.

Doll, J.C., T.E. Lauer, & S. Clark-Kolaks. July 2014. Indiana walleye recruitment: Evaluating predictors of stocking success. International Society for Bayesian Analysis. Cancun, Mexico.

Doll, J.C., & T. E. Lauer. March 2014. Walleye recruitment in Indiana. Ball State University Student Symposium, Muncie, IN.

Doll, J.C., & T. E. Lauer. March 2013. Frequentist and Bayesian catch curves, which is better? Ball State University Student Symposium, Muncie, IN.

- Owen, D.*, S.J. Jacquemin, **J.C. Doll**, M. Pyron, M. Allen, & T.E. Lauer. August 2012. Age and growth rate of freshwater drum (*Aplodinotus grunnius*) in the Wabash River, USA. American Society of Ichthyologists and Herpetologists, Vancouver, Canada.
- Doll, J.C.**, & T.E. Lauer. February 2012. Estimating abundance and detectability of fish in wadeable streams. Indiana Chapter of the American Fisheries Society Spring Technical Conference. Indianapolis, IN. – *Awarded Best Professional Poster*
- Sudhoff, K.*, & **J.C. Doll**. February 2012. Evaluation of smallmouth bass and rock bass population dynamics of White River, Muncie, IN. Indiana Chapter of the American Fisheries Society Spring Technical Conference. Indianapolis, IN.
- Doll, J.C.**, & S.J. Jacquemin. December 2011. Long-term trends in fish assemblages in relation to niche breadth and habitat in the West Fork White River, Indiana. Midwest Fish and Wildlife Conference, Des Moines, Iowa.
- Etchison, L.* & **J.C. Doll**. February 2011. Using side scan sonar with GIS to quantify substrate in White River, Muncie, IN. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Montgomery, IN.
- Doll, J.C.** October 2009. Evaluation of estrogenic compounds in the West Fork White River. Indiana Academy of Science Fall Conference, Kokomo, IN.
- Doll, J.C.** December 2009. Evaluation of estrogenic compounds in the West Fork White River. Midwest Fish and Wildlife Conference, Springfield, IL.
- Holloway, A.T.*, & **J.C. Doll**. February 2010. Using Tolerance Values to Describe Fish Communities in the Eastern Corn Belt Plain. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Elkhart, IN.
- Holloway, A.T.*, **J.C. Doll**, & R.C. Conrad. February 2009. Temporal Variability of the Fish Community in White River, 1987-2007. Indiana Chapter of the American Fisheries Society Spring Technical Conference, Indianapolis, IN.
- Workshops/Seminars/Misc. Presentations*
- Doll, J.C.** October 2017. Introduction to Stan: software for Bayesian inference. Tuesday Inter-Lab Quantitative Seminar Series, Quantitative Fisheries Center, Michigan State University, East Lansing, Michigan.
- Doll, J.C.** April 2017. Stan for Bayesian inference: How to. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. Invited**, February 2017. R For Fisheries Professionals, Workshop for the Indiana and Ohio Chapters of the American Fisheries Society, Ball State University, Muncie, Indiana.
- Doll, J.C.** January 2017. Bayesian inference with JAGS and Stan. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. Invited**, November 2016. Long-term monitoring of Yellow Perch in Southern Lake Michigan. Illinois-Indiana Sea Grant, Recreational Fishing Workshop – Indiana, Hammond, IN.
- Doll, J.C.** September 2015. Introduction to RStan and the Stan modelling language. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.

- Doll, J.C. *Invited***, September 2015. Open source software for fisheries biologists. Indiana Chapter of the American Fisheries Society, Muscatatuck National Wildlife Refuge, Seymour, IN.
- Doll, J.C.** November 2014. The problem with missingness and the Bayes way to handle it in R. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. *Invited***, September 2014. History and management of Walleye in Indiana. Wright State University-Lake Campus, Celina, Ohio.
- Doll, J.C.** May 2014. Bayesian variable selection. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. *Invited***, October 2013. R For Fisheries Professionals, Workshop for the Indiana Chapter of the American Fisheries Society, Ball State University, Muncie, Indiana.
- Doll, J.C.** September 2013. Presentation quality figures with R and ggplot2. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C.** April 2013. Bayesian inference of hierarchical models. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. *Invited***, April 2013. Indiana pond management. Madison County Soil and Water Conservation District, Anderson, IN.
- Doll, J.C.** February 2013. Bayesian inference: the new/old statistical paradigm in town. Applied Statistics and R Users Group, Ball State University, Muncie, Indiana.
- Doll, J.C. *Invited***, March 2012. White River research: Biological Integrity, Smallmouth Bass, and estrogenic compounds. Indiana Smallmouth Alliance Annual Conference, Zionsville, IN.
- Doll, J.C. *Invited***, July 2012. Indiana pond management. Madison County Soil and Water Conservation District, Anderson, IN.

SKILLS

Field and laboratory equipment: Fisheries and limnological equipment for lentic and lotic bodies of water (e.g., Great Lakes, natural lakes, reservoirs, big rivers, wadeable streams). Bottom trawl, gillnets, electrofishing (boat, barge, back-pack units), seine, plankton nets, flowmeter, Van Dorn water samplers, Secchi disks, sediment samplers, Swimming performance flow chamber, and Hydrolab.

Statistical and GIS software/Programming languages: R, ADMB, SAS, Minitab, SPSS, Systat, programming languages specific to Bayesian inference (Stan, JAGS, WinBUGS), ArcGIS, and QGIS.