

## Carly J. Nowicki, Ph.D.

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### PROFESSIONAL PREPARATION

**Wayne State University** Biology (Aquatic Ecology) Ph.D. 2014  
Dissertation: *Environmental Stressors: Pathways of Exposure and Aquatic Invertebrate Response*

**University of Michigan – Ann Arbor** Molecular & Cellular Biology B.S. 2009

### TEACHING APPOINTMENTS

**Lecturer III**, Department of Ecology & Evolutionary Biology, University of Michigan, Ann Arbor, MI  
January 2020 – *Present*  
BIO 173 Introductory Biology Lab (2 cr.)  
EEB 372 Ecology Lab (3 cr.)

**Assistant Professor**, Department of Biology, Madonna University, Livonia, MI, Jan 2017 – Dec 2019

**Faculty Mentor**, Biological & Health Sciences Club, Madonna University, Livonia, MI, Sept 2017 – Dec 2019

**Adjunct Assistant Professor**, Depart. of Biology, Bellarmine University, Louisville, KY Jan – April 2015; BIOL 140 Animal Diversity + Lab (4 credits)

**Instructor/Visiting Scientist**, workshop entitled: *Bioassessment Techniques in Aquatic Ecology*, University of Puerto Rico-Mayagüez. August 2013.

**Graduate Teaching Assistant**, BIO 4130 General Ecology Lab – Writing Intensive (4 cr.), Department of Biological Sciences, Wayne State University. Winter 2012 and Winter 2013

**Education Volunteer**, Rouge River Education Program, Friends of the Rouge River Non-profit Organization. Fall 2012 and Fall 2013.

**Graduate Teaching Assistant**, BIO 1500 Organismal Biology (4 credits), Department of Biological Sciences, Wayne State University. Fall 2010 and Fall 2011 semesters.

**Guest Lecturer**, BIO 1500 Organismal Biology (4 credits) lecture entitled: *Chordates*, Department of Biological Sciences, Wayne State University. July 2011

**Team Leader**, Biannual macroinvertebrate surveys of the Rouge River, Friends of the Rouge River Organization. Fall and winter 2009 – 2014.

**Graduate Teaching Assistant**, BIO 7110 Aquatic Ecology (4 credits), Department of Biological Sciences, Wayne State University. Fall 2009.

### RESEARCH EXPERIENCE

**Postdoctoral Scientist**, University of Toledo & U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, MI. April 2015 – December 2016. Supervisor: David ‘Bo’ Bunnell

**Graduate Research Assistant**, Department of Biological Sciences, Wayne State University, Detroit, MI. September 2009 - December 2014. Advisor: Dr. Donna Kashian

**Research Assistant**, Invasives Early Warning Systems Project, Wayne State University, Detroit, MI. May 2012-August 2013. Supervisor: Dr. Jeffrey Ram

**Research Assistant**, Saginaw Bay Multiple Stressors Project, NOAA Great Lakes Environmental Research Lab, Ann Arbor, MI. 2010-2011. Supervisor: Dr. Donna Kashian

**Research Assistant**, Department of Neurology, University of Michigan, Ann Arbor, MI. September 2007-June 2009. Supervisor: Dr. Jack Parent

**Research Assistant**, Providence Hospital Patient Care Research Department, Southfield, MI. January 2005-Aug 2005. Supervisor: Dr. David M. Svinarich

### PUBLICATIONS

Steiner CF and CJ Nowicki. 2019. Eco-evolutionary dynamics in the wild: clonal turnover and

- stability in *Daphnia* populations. *American Naturalist*, 194(1), 117 – 123.
- Nowicki CJ** and DR Kashian. 2018. Comparison of lipid peroxidation and catalase response to single and multiple stressors in invasive dreissenid mussels. *Environmental Toxicology and Chemistry*, 37(6), 1643-1654
- Nowicki CJ**, Bunnell DB, Armenio PM, Warner DM, Vanderploeg HA, Cavaletto JF, Mayer CM, and JV Adams. 2017. Biotic and abiotic factors influencing zooplankton vertical distribution in Lake Huron. Submitted to *Journal of Great Lakes Research* 43, 1044-1054
- Nowicki CJ**, van Hees EH, Kashian DR. 2014. Comparative effects of sediment versus aqueous PCB exposure on benthic and planktonic invertebrates. *Environmental Toxicology and Chemistry* 33(3), 641-647
- Siersma HMH, Foley CJ, **Nowicki CJ**, Qian SS, Kashian DR. 2014. Trends in the distribution and abundance of *Hexagenia spp.* in Saginaw Bay, Lake Huron, 1954-2012: Moving towards recovery? *Journal of Great Lakes Research* 40, 156-167

### **OTHER PUBLISHED WORK**

- Nowicki CJ** and NA Butkevich. 2019. BIO 2450 Human Anatomy & Physiology 1 Laboratory Manual. Madonna University. 2nd Ed. Hayden-McNeil, LLC. ISBN 978-1-5339-1516-0
- Nowicki CJ** and NA Butkevich. 2019. BIO 2460 Human Anatomy & Physiology 2 Laboratory Manual. Madonna University. 2nd Ed. Hayden-McNeil, LLC. ISBN 978-1-5339-1515-3
- Nowicki CJ** and NA Butkevich. 2018. BIO 2430 Human Anatomy & Physiology 1 Laboratory Manual. Madonna University. 1<sup>st</sup> Ed. Hayden-McNeil, LLC. ISBN 978-0-7380-9912-5
- Nowicki CJ** and NA Butkevich. 2018. BIO 2440 Human Anatomy & Physiology 2 Laboratory Manual. Madonna University. 1<sup>st</sup> Ed. Hayden-McNeil, LLC. ISBN 978-0-7380-9912-7

### **SELECT PRESENTATIONS**

- Nowicki CJ**, MC Ammerlaan, SJ Cheng, E Levesque. From Surviving to Thriving: Mapping Course Ecosystems to Foster Learning and Community in Intro Biology Lab. Ecology and Evolutionary Biology Seminar, Ann Arbor, MI. March 2021
- Nowicki CJ** and NA Butkevich. Changing the Culture in an A&P Laboratory Course. Human Anatomy and Physio. Society Conf., Ohio State University, Columbus, OH, USA. May 2018. Workshop
- Pegg JM and **CJ Nowicki**. Benefits of State Park Protections on Shark and Ray Communities in Clearwater, Florida. Michigan Academy of Science, Arts and Letters Annual Conference, Central Michigan University, Mt. Pleasant, MI, USA. March 2018.
- O'Dowd P and **CJ Nowicki**. Regional Incidence of Methicillin Resistant *Staphylococcus aureus* in the United States. Michigan Academy of Science, Arts and Letters Annual Conference, Central Michigan University, Mt. Pleasant, MI, USA. March 2018.
- Pegg JM and **Nowicki CJ**. Benefits of state park protections on shark and ray communities in Clearwater, Florida. Senior Seminar Research Symposium, Madonna University, December 2017.
- O'Dowd P and **CJ Nowicki**. Regional Incidence of Methicillin Resistant *Staphylococcus aureus* in the United States. Senior Seminar Research Symposium, Madonna University, December 2017.
- Bunnell, D. B., P. M. Armenio, D. M. Warner, and **C. J. Nowicki**. Trophic ecology of *Coregonus hoyi* in lakes Michigan and Huron. 13th International Coregonid Symposium, Bayfield, WI. 2017
- Nowicki, C. J.**, Armenio, P.M., Bunnell, D.B., Warner, D., Mayer, C.M. Comparing niche space overlap and trophic shifts between Lakes Michigan and Huron using stable isotopes. Internat. Assoc. for Great Lakes Research Annual Meeting, Detroit, MI. May 2017.
- Nowicki CJ**, Armenio PM, Bunnell DB, Warner DM, Vanderploeg HA, Cavaletto JF, and CM Mayer. "To eat or be eaten? The ups and downs of zooplankton diel vertical migration in Lake Huron." Internat. Assoc. for Great Lakes Research Annual Meeting, Guelph, Ontario, Canada. May 2016.
- Nowicki CJ** and DR Kashian. "Mechanisms of Tolerance and Distribution: Comparing the Oxidative Stress Response in Two Invasive Dreissenid Mussels under Different Environmental Conditions." Society for Freshwater Science Annual Meeting, Burlington, VT, USA. May 2015.

**Nowicki CJ** and DR Kashian. “Mechanisms of PCB Tolerance: Comparing the Oxidative Stress Response in Two Invasive Dreissenid Mussels.” Joint Aquatic Science Meeting, Portland, OR, USA. May 2014.

**Nowicki CJ** and DR Kashian. “Mechanisms of PCB Tolerance: Comparing the Oxidative Stress Response in Two Invasive Dreissenid Mussels.” Society of Environmental Toxicology and Chemistry Europe 23rd Annual Meeting, Glasgow, Scotland, UK. May 2013. Poster

**Collins\* CJ**, van Hees EH, Kashian DR. “Comparative Effects of Sediment versus Aqueous PCB Exposure on Benthic and Planktonic Invertebrate.” Society for Freshwater Science Annual Meeting, Louisville, KY, USA. May 2012.

**Collins\* CJ**, van Hees EH, Kashian DR. “Comparative Effects of PCB Contaminations on Benthic and Planktonic Invertebrate Survival.” North American Benthological Society Annual Meeting, Providence, RI, USA. May 2011.

**Collins\* CJ**, van Hees EH, Kashian DR. “Comparative Effects of PCB Contaminations on Benthic and Planktonic Invertebrate Survival.” WSU Graduate Exhibition, Wayne State University, Detroit, MI, USA. March 2011. Poster

**Collins\* CJ**, van Hees EH, Kashian DR. “Comparative Effects of PCB Contaminations on Benthic and Planktonic Invertebrate Survival.” American Society for Limnology and Oceanography Annual Meeting, San Juan, Puerto Rico. Feb 2011. Poster

\*maiden name

## **SELECT AWARDS & GRANTS**

### **Teaching Awards**

2019 *Student Senate Advisor of the Year Award - Honorable Mention*

2019 *Student Senate Outstanding Faculty of the Year Award - Honorable Mention*

2018 *Student Senate Outstanding Faculty of the Year Award*

### **Grants**

<b>Grants</b>	<b>Period</b>	<b>Total</b>
Society for Freshwater Science General Endowment Award	2014	\$1,000
Thomas C. Rumble University Graduate Fellowship	2013-2014	\$38,200
WSU Graduate School Summer Dissertation Fellowship	2013	\$5,000
WSU Graduate Research Assistant Enhancement Award	2012	\$16,590
WSU Graduate School Dissertation Research Support Grant	2012	\$2,000
Michigan Garden Club Scholarship	2012	\$1,000
MSU Kellogg Biological Station G.H. Lauff Scholarship	2011	\$2,600
North American Benthological Society's Conservation Award	2011	\$750
Saginaw Bay Walleye Club Research Grant	2009	\$1,000
Wayne State Graduate School Rumble Award	2009	\$32,000

## **PROFESSIONAL SERVICE**

- Journal reviewer, *Journal of Great Lakes Research* (2015, 2016, 2017, 2018), *Aquatic Toxicology* (2015, 2017), *PeerJ* (2016)
- Sigma Zeta National Science and Mathematics Honor Society (2017 – present)
- International Association for Great Lakes Research member (2011, 2013 - present)
- Society of Environmental Toxicology and Chemistry member (2013 - 2015)
- Society for Freshwater Science member (2009-present)/ Graduate Student Chair (2013)
- American Society for Limnology and Oceanography member (2011-2013)
- Wayne State University Biological Sciences Graduate Student Association (2009-2014)
- UofM Student Society for Stem Cell Research member/PR Director (Sept 2006-2009)

## **PUBLIC SERVICE**

- Friends of the Rouge River Survey Leader (2009-2016)

- Rouge River Education Program Leader Volunteer (2012-2013)
- Fish Consumption Advisories booth, Detroit River Days (2010 & 2011)
- Fish Consumption Advisory booth, Health Day Fair in Detroit, MI (2010)

**RELEVANT PROFESSIONAL TRAINING:**

**Professional Training:**

*NSF Active Learning for Busy Skeptics and True Believers Workshop*, University of Michigan, Ann Arbor, MI. October 2021. A 1-day workshop on active learning strategies as part of an NSF Active Learning Research through the College of Engineering at UM.

*Active LENS Evolution Educator Workshop*, Michigan State University, East Lansing, MI. August 2018. A 3-day workshop training in the use and implementation of the Avida-ED evolution software.

*Online Instructor Professional Development Course and Certificate*, Madonna University, Livonia, MI March-April 2017. This course was designed to prepare faculty to develop and teach effective and engaging interactive online courses. Faculty were taught to use the Blackboard course delivery software for asynchronous and synchronous learning activities.

*Michigan Blackboard User Group Conference (MiBUG)*. 2017, 2018, 2019