

JULIA J. SNYDER

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EDUCATION

Doctor of Philosophy in College Science Teaching 2012
College of Arts and Sciences
Syracuse University, Syracuse, NY

Graduate Certificate in University Teaching 2012
Biology Department & Graduate School
Syracuse University, Syracuse, NY

Master of Science in Science Teaching 2001
School of Education
Syracuse University, Syracuse, NY

Bachelor of Science in Environmental Forest Biology 1999
SUNY Environmental Science and Forestry, Syracuse, NY

RESEARCH EXPERIENCE

Cengage Learning 2012
Independent Consultant/Researcher

Doctoral Research (academic advisor: Dr. Jason R. Wiles) 2009-2011
Dissertation Research Project: Peer-Led Team Learning in Introductory Biology-
Effects on Critical Thinking Skills

Postdoctoral Research 2014-2016
EAGER: Enhancing Recruitment and Retention of Underrepresented Populations
Through PLTL (NSF award 1352740)

PUBLICATIONS

In Peer-reviewed Journals:

Snyder, J.J., Sloane, J. D., &Wiles, J.R. (2016). Peer Led Team Learning Helps Minority Students Succeed. *PLOS Biology* 10(1): e1002398.

Snyder, J. J., Carter, B. E. & Wiles, J. R. (2015). Implementation of the peer-led team learning instructional model as a stop-gap measure improves achievement among students opting out of laboratory. *CBE-Life Sciences Education* 14(1):ar2.

Snyder, J. J. & Wiles, J. R. (2015). Peer-led team learning in introductory biology: Effects on peer leader critical thinking skills. *PLoS One* 10(1): e0115084.

Snyder, J.J. & Wiles, J.R. (2014). ABSTRACT. Peer Led Team Learning in Introductory Biology: Effects on Critical Thinking Skills and Student Achievement. *Bioscene: Journal of College Biology Teaching* 40(1), 33.

Dotger, S., Barry, D., Wiles, J. R., Benevento, E., Brzozowski, F., Hurtado, J. L., Jacobs-McDaniels, N. L., Royse, E., Ruppel, R, Sen, D., **Snyder, J.**, Stokes, R., & Wisner, E. (2012). Developing graduate students' knowledge of Hardy Weinberg equilibrium through lesson study. *Journal of College Science Teaching* 40(1), 40-44.

Published Curricular Materials:

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Photosynthesis and Respiration PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Animal Structure PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Endocrine and Excretory Systems PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Internal Transport Systems PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Animal Nutrition PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Plant Reproduction PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Animal Behavior PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Genetic and DNA Technology PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Spring 2015). Sensory and Motor Mechanisms PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Accepted March 2016). Plant Diversity PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Accepted March 2016). Animal Diversity PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (Accepted March 2016). Ecology PLTL Workshop Module. *Progressions: Peer-Led Team Learning*.

CONFERENCE PRESENTATIONS

Snyder, J. J. & Wiles, J.R. (2011). Peer-Led Team Learning in Introductory Biology: Effects on Critical Thinking Skills. Presented at the Annual NABT Professional Development Conference. Anaheim, CA.

Snyder, J. J. & Wiles, J.R. (2012). Efficacy of a peer-led team learning model in introductory biology. Presented at the Ninth Annual Biology Leadership Conference. Kiawah Island, SC.

Snyder, J. J. (2012). Peer-Led Team Learning in Introductory Biology: Effects on Peer Leaders Critical Thinking Skills. Presented at SUPA Conference. Syracuse, NY.

Snyder, J. J. (2012). Peer-Led Team Learning in Introductory Biology: Effects on Peer Leaders Critical Thinking Skills. Presented at SUPA Conference. NYC, NY.

Snyder, J. J. & Wiles, J.R. (2013). Peer-Led Team Learning in Introductory Biology: Effects on Critical Thinking Skills. Presented at the Annual NARST Conference. Rio Grande, Puerto Rico.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (2015). Peer-Led Team Learning as Tool for Recruitment and Retention of Underrepresented Minority Students in STEM. Presented at the Annual BLC conference. Austin, Texas.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (2015). Can Peer Led Team Learning (PLTL) Increase Recruitment and Retention of Underrepresented Minority Peer Leaders in STEM? Roundtable Presentation at the Annual SABER conference. Minneapolis, MN.

Snyder, J.J. (2015). Genesis and Evolution of PLTL at Syracuse University: Research and Outcomes. Presented at the Summer PLTL Institute. NYC, NY.

Snyder, J.J., Sloane, J.D., & Wiles, J.R. (2015). Peer Led Team Learning Improves Achievement of Minority Students. Presented at the Annual ACUBE conference. Kansas City, Missouri.

Snyder, J.J., Sloane, J. D., & Wiles, J.R. (2016). Peer-Led Team Learning: Improving Achievement for Underrepresented Minorities in Post-Secondary Biology. Paper presented at the Annual NARST Conference. Baltimore, MD.

Snyder, J.J. (2016). Genesis and Evolution of PLTL at Syracuse University: Implementation and Impact on Student Success in Introductory Biology. Keynote speaker at Skidmore PLTL Conference. Saratoga Springs, NY.

AWARDED RESEARCH FUNDING

Marvin Druger Travel Grant. Syracuse University: Department of Science Teaching. \$600. 2011.

Doctoral Research Funds. Awarded from Renee Crown Honors College. \$1000. 2011.

Instructional Technology Research Stipend awarded from Cengage Learning. \$7000. 2012

TEACHING EXPERIENCE

Instructor, Department of Biology Syracuse University	2014-2016
Graduate Teaching Assistant, Department of Biology Syracuse University	2001-2005; 2008-2012
Instructor, Department of Biology Syracuse University	2011
Guest Lecturer, Department of Biology Syracuse University	2011
Health 12 Teacher Living Word Academy	2007-2010
Living Environment Teacher Cicero-North Syracuse High School	2001-2002; 2004-2006
Essentials of Earth Science Teacher Cicero-North Syracuse Junior High School	2002-2004
Graduate Teaching Assistant, Department of Science Teaching Syracuse, NY	1999-2000

SUBJECTS TAUGHT

UNDERGRADUATE: Introductory Biology Laboratory I & II, Introductory Biology I & II (Guest Lectures), Biology Special Topics: Peer-Led Team Learning Leadership Experience, Anatomy and Physiology (Guest Lectures), Dendrology

SECONDARY: Living Environment, Essentials of Earth Science, Health 12

RELATED PROFESSIONAL EXPERIENCE

- **Future Professoriate Program.** Syracuse University. 2008-2012
Independent Teaching Experience. Held primary responsibility for my own course, under the guidance of a faculty teaching mentor.
- **Syracuse University Project Advance.** Syracuse, NY. 2010-2011
Professional Development Workshops. Worked with secondary level teachers to explain various biology lab and recitation concepts.
- **Sinauer Associates, Inc.** Sunderland, MA. 2009-2010
Reviewer. Reviewed test files and animations that supported the 9th Edition of *Life: The Science of Biology*.
- **Cicero-North Syracuse Schools.** North Syracuse, NY. 2005-2006
Modified Cross Country Assistant Coach. Worked with middle school runners on proper stretching, running form and techniques, and racing strategies.
- **Private Tutor.** Cazenovia, NY. 2004
Math and Science Tutor. Conducted one-on-one math and science tutoring sessions with a middle school student.
- **Bristol Meyers Squibb Science Horizons.** Syracuse, NY. 2000-2001
Graduate Student Leader. Led middle school science students through various science activities during the weeklong summer program, as well as designed and conducted various science activities for the students.

AWARDS

Syracuse University College of Arts and Sciences Outstanding Dissertation Award	2012
National Association of Biology Teachers Four-Year College Section Vernier Graduate Student Research Award	2011
Maple Leaf Award	1998

PROFESSIONAL MEMBERSHIP

National Association of Biology Teachers	2011-Present
National Association for Research in Science Teaching	2012-2013