

Michael Orsega, PhD

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EDUCATION

PhD: Computer Science
The University of Tennessee, Knoxville, TN

MAMS: Applied Mathematics, Computer Science Option
The University of Georgia, Athens, Georgia

BS: Physics
The Pennsylvania State University, University Park, PA

TEACHING EXPERIENCE

The University of West Georgia

Jan 2019 – present Graduate Program Director (Computer Science)
Aug 2015 – present Associate Professor (Computer Science)
Aug 2009 – Aug 2015 Assistant Professor (Computer Science)

- Teach introductory and advanced Computer Science courses

Central Carolina Community College

Aug 01 – Jun 02 Full Time Faculty
Jun 02 – Aug 05 Lead Instructor (Computer Programming)

- Taught seated and online courses
- Created online Associates Degree in Computer Programming Curriculum
- Created Certificate in Computer Game Programming

North Carolina State University

Jan 04 – Jun 04 Adjunct Faculty

- Taught seated section of CS302 (Data Structures) to upper level CS majors

The University of Georgia

Aug 00 – Jun 01 Instructor of Record

- Taught CS1301 (Introduction to Programming in Java) to CS undergraduates

PROFESSIONAL EXPERIENCE

Education to Go, Inc.

Author

- Developed four non-credit courses, each of which consists of 3,000 – 5,000 words of original, stand-alone text, exercises, quiz questions and a final exam
- Course subjects in computer programming using C#, Python, and Alice
- Current courses are offered at over 1,900 institutions worldwide
- Over 20,000 students have enrolled in these courses

PUBLICATIONS

- Baumstark, L., Orsega, M. (2016). Quantifying introductory CS students' iterative software process by mining version control system repositories. *Journal of Computing Sciences in Colleges*. 31 (6), 97-104.
- Taylor, E., Skinner, C., McCallum, E., Poncy, B., Orsega, M. (2013). Enhancing Basic Academic Skills with Audio-Recordings. *Educational Research Quarterly*, 27(2):22-60.
- Yaw, J., Skinner, C., Orsega, M., Parkhurst, J., Booher, J., Chambers, K. (2012). Evaluating a Computer-Based Sight-Word Reading Intervention in a Student with Intellectual Disabilities. *Journal of Applied School Psychology*, 28(4):354-366.
- Orsega, M., Vander Zanden, B., Skinner, C. (2012). Experiments with Algorithm Visualization Tool Development. In *Proceedings of the 43rd ACM Technical Symposium on Computer Science Education (SIGCSE '12)*. ACM, New York, NY, USA, 559-564.
- Orsega, M., Vander Zanden, B., Skinner, C. (2011). Two Experiments using Learning Rate to Evaluate an Experimenter Developed Tool for Splay Trees. In *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education (SIGCSE '11)*. ACM, New York, NY, USA, 135-140.

CONFERENCE PRESENTATIONS

- Orsega, M. and Baumstark, L. (2017). The Use of Version Control in CS2. Presentation at ACM-MidSoutheast Conference, Gatlinburg, TN.
- Orsega, M, Wilson, C., Gunter, N. (2014). Measuring Effects on Problem Completion Time when Interspersing Brief Problems within Target Problem Sets for Multiplication Practice. Presentation at Mid-South Educational Research Association, Knoxville, TN.
- Orsega, M., Carlson, T., Siver, D. (2012). Using Undergraduates to Build an Animated Flash Tutorial for CS1. Presentation at ACM-MidSoutheast Conference, Gatlinburg, TN.
- Orsega, M. (2010). Sketchmate: An Instructional Tool for Splay Trees. Presentation at ACM-MidSoutheast Conference, Gatlinburg, TN.
- Fuller, E., Krohn, K., Orsega, M., Skinner, C. Williams, J. (2009). The effects of Pacing on Academic Performance in Elementary School Students. Presentation at National Association of School Psychologists Annual Conference, Boston, MA.
- Doctoral Consortium Participant (2008). ACM Special Interest Group on Computer Science Education (SIGCSE) Annual Conference, Portland, OR.
- Doctoral Consortium Participant (2007). ACM Special Interest Group on Computer Science Education (SIGCSE) Annual Conference, Covington, KY.
- Orsega, M (2006). Making the Most of Java 1.5. Presentation at Course Technology – The Conference 2006, San Francisco, CA.
- Orsega, M (2005). Making Programming Fun with Mobile Devices. Presentation at Course Technology – The Conference 2005, Orlando, FL.
- Orsega, M (2005). Java 1.5 – The New Java. Presentation at Course Technology – The Conference 2005, Orlando, FL.
- Orsega, M (2002). An Introduction to Programming in Java. Presentation at North Carolina Computer Instructors Association (NCCIA) Spring 2002 Conference, Morehead City, NC.

GRANTS

- 2015 UWG Faculty Research Grant, "Best Practices for Developing a Web Application to Enhance Basic Math Education", \$550
- 2014 UWG Faculty Research Grant, "Developing a Web Application to Enhance Basic Math Education", \$1,250
- 2013 UWG Student Research Assistant Program, "Evaluating Instruction using Custom-Built Tutorials", \$2000
- 2013 UWG Faculty Research Grant, "Investigating the Use of Technology to Enhance Student Learning", \$550
- 2012 UWG College of Science and Mathematics Grant Development Initiative, "Investigating the Use of Technology to Enhance Student Learning", \$2500
- 2012 UWG Institutional STEM Excellence (UWise) Mini Grant, "Improving Instruction and Enhancing Student Success in STEM Disciplines", \$7500
- 2012 UWG Student Research Assistant Program, "Evaluating Instruction using ASP", \$2000
- 2012 UWG Faculty Research Grant, "Investigating Techniques to Help Increase Student Persistence When Working Homework Exercises", \$675
- 2011 UWG Faculty Research Grant, "Increasing Student Persistence with Math Problems", \$1309.50
- 2011 UWG Institutional STEM Excellence (UWise) Mini Grant, "Developing Flash Video Tutorials", \$7,500

PROFESSIONAL CERTIFICATIONS

- Oracle Certified Master, Java Programming SE6 Developer, 2014
- Oracle Certified Professional, Java SE6 Programmer, 2011

AWARDS

- 2017 Outstanding Graduate Teacher of the Year, UWG Computer Science Department
- 2015 COSM Nominee for Regent's Teaching Excellence Award for Online Teaching
- 2014 Outstanding Graduate Teacher of the Year, UWG Computer Science Department
- 2012 Outstanding Undergraduate Teacher of the Year, UWG Computer Science Department
- 2008 The University of Tennessee Citation for Extraordinary Professional Promise Graduate
- 2006 Teaching Assistant of the Year, The University of Tennessee