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University of Maryland
College Park, MD 20742-4451
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EDUCATION

PH.D. Graduate student, Science Education, University of Maryland, College Park, MD. Expected completion in January 2013. *Understanding biology students' attitudes and epistemologies of science in the context of an interdisciplinary science course*. Advisor: Dr. Edward F. Redish.

M.S. Psychology, Loyola College in Maryland, Baltimore, MD, June 2007.

B.S. Biology, Salisbury University, Salisbury, MD, June 2004. – *Graduated with honors*.

RESEARCH EXPERIENCE

EDUCATION RESEARCH

Doctoral Research, University of Maryland, College Park, MD, 2007-present. Dissertation topics: Exploring students' attitudes and epistemologies, survey instrument development, curriculum development and reform.

Research assistant, Socio-environmental Synthesis Center (SESYNC), Annapolis, MD, Fall 2012-present. Collaborated to help design and implement reformed classroom pedagogy in undergraduate courses at UMCP. Developed assessments of students' understandings of the sciences, including surveys.

Research assistant, BSCI207 Principles of Biology III - Organismal Biology, University of Maryland, Spring 2008-present. Collaborated to help design and implement reformed classroom pedagogy. Helped train and supervise undergraduate teaching assistants. Collected, managed, and helped to analyze student data in order to build a conceptual framework of students' attitudes and epistemologies of biology within the context of this course.

Collaborator, Creating a Common Thermodynamics, Fall 2012- present.

Collaborator, Project Nexus, Fall 2011- present. Will design, administer, and validate survey instruments for classroom implementation.

Research assistant, Educational Videos for Undergraduate Courses, Department of Cell Biology and Molecular Genetics, University of Maryland, Fall 2007-2009. Created and disseminated educational digital media to supplement course materials for several courses at UMD.

SCIENCE RESEARCH

Bachelor's research, Salisbury University, 2001-2004. Molecular genetics research in model plant *Arabidopsis thaliana*. Thesis Topic: used viral induced gene silencing to knock down expression of a novel myosin gene. Advisor: Dr. Les Erickson

TEACHING EXPERIENCE

Teaching assistant, BSCI222 Principles of Genetics, University of Maryland, Fall 2007. Managed a discussion-based course with three separate sections. Created and graded weekly quizzes and graded lecture exams. Was responsible for holding office hours and review sessions.

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TEACHING EDUCATION

Discussion coordinator, BSCI222 Principles of Genetics, University of Maryland, spring 2009. Selected to manage all teaching assistants for all sections of Principles of Genetics in the spring of 2009. Was responsible for approving weekly quizzes, organizing lecture exams grading, running weekly TA meetings, monitoring student absences, both from discussion and lecture, and provided weekly feedback to course instructors and TAs.

PRESENTATIONS

Hall, K.L. 2012. *Pedagogy and Assessment-How it is learned is as important as how it is taught!* Invited talk at the HHMI bioscience symposium. November, 2012. College, Park, MD.

Hall, K.L., Redish, E.F., Cooke, T.J. 2012. *Students Learning Expectations in Undergraduate Biology Courses*. Contributed poster at The University of Maryland Bioscience Research & Technology Review Day, November, 2012. College, Park, MD.

Hall, K.L., Redish, E.F., Cooke, T.J. 2012. *Students Learning Expectations in Undergraduate Biology Courses*. Contributed poster at The Society for the Advancement of Biology Education Research (SABER) annual meeting, July, 2012. Minneapolis, Minnesota.

Hall, K.L., 2012. MBEX- MPEX Results: Report for the Project Nexus Workshop-Invited Presentation, January 11, 2012. College, Park, MD.

Hall, K.L., 2011. The PKAL Learning Space Collaboratory (LSC). Planning Spaces for Learning for 21st Century Undergraduate Learners. Fall Meeting-Invited presentation, September, 2011. Washington, DC.

Hall, K. L., Watkins, J. E., Coffey, J. E., Cooke, T. J., and Redish, E. F., 2011. *Examining the Impact of Student Expectations on Undergraduate Biology Education Reform*. Roundtable discussion at the American Education Research Association conference, April 2011, New Orleans, LA.

Watkins, J. E., **Hall, K. L.**, Coffey, J. E., Cooke, T. J., and Redish, E. F., 2011. *Using mathematics and physics in biology courses*. The American Association of Physics Teachers Winter Meeting-Invited talk, January 2011.

Cooke, T.J., Jensen, J. S., Watkins, J. E., **Hall, K. L.**, Redish, E. F., 2011. *Why biology students have so much trouble using physics in biology courses*. The American Association of Physics Teachers Winter Meeting-Invited talk, January 2011.

Cooke, T.J., Jensen, J. S., **Hall, K.L.**, Coffey, J.E., Watkins, J.E., and Redish, E.F., 2011. *A New Approach toward Teaching Introductory Organismal Biology*. Contributed poster at the AAAS - CCLI Conference, January 2011, Washington, DC.

Hall, K., Cooke, T., Dobbins, H., and Redish E.F., 2010. *Student Attitudes Towards Using Physics in Biology*. American Association of Physics Teachers Winter Meeting-contributed talk, January 2010, Washington, DC.

Hall, K. L. and Shields, P. A., 2010. *iTunesU and Podcasting: Mobile Learning Outside the Classroom: Science Anytime*, Center for Teaching Excellence- Invited presentation, University of Maryland, College Park, MD.

Watkins, J., **Hall, K.**, Redish E.F. and Cooke, T., 2010. *Understanding How Students Use Physical Ideas in Introductory Biology Courses*. 2010. Physics Education Research Conference-contributed poster, July 2010, Portland, OR.

Watkins, J., **Hall, K.**, Cooke, T., and Redish, E.F., 2010. *Understanding How Students Use Physical Ideas in Introductory Biology Courses*. 2010. American Association of Physics Teachers Summer Meeting-contributed poster, July 2010, Portland, OR.

Hall, K. and Shields, P. A., 2009. *Educational Videos for Undergraduate Biology Courses*. 2009 Bioscience Day- contributed poster, University of Maryland, College Park, MD.

Hall, K. L. and Shields, P. A., 2009. *Instructional Videos in Student Learning, Using iTunes U*. OIT Brown Bag Lunch, University of Maryland, College Park, MD, Invited presentation

Shields, P. A. and **Hall, K.L.**, 2009. *iTunesU and Podcasting: Mobile Learning Outside the Classroom: Science Anytime*, Center for Teaching Excellence, University of Maryland, College Park, MD, Invited presentation

Redish, E.F., Cooke, T.J., Dobbins, H.D., and **Hall, K.L.**, 2009. *Transforming the Physics Education of Undergraduate Biology Students in Introductory Physics and Biology Courses*. GIREP 2009. August 2009, Leicester, UK.

Hall, K. L. and Shields, P. A., 2008. *Instructional Videos in Student Learning, Using iTunes U*. OIT Brown Bag Lunch, University of Maryland, College Park, MD, Invited presentation

Shields, P. A. and **Hall, K.L.**, 2007. *Murder in the Micro Building – Instructional Videos in Student Learning, BSCI222*. Conversations in Teaching and Learning, University of Maryland, College Park, MD, Invited presentation

Publications

Hall, K.L., Watkins, J.E., Coffey, J.E., Cooke, T.J., and Redish, E.F. 2011. "Examining the Impact of Student Expectations on College-level Curricular Reform." 2011 American Educational Research Association annual meeting, New Orleans, LA, April 30 -May 4, 2011. American Education Research Association Report.

Watkins, J.E., **Hall, K.L.**, Redish, E. F., and Cooke, T. J. "Understanding How Students Use Physical Ideas in Introductory Biology Courses." Physics Education Research Conference, *Portland, OR, July 22-23, 2010*, Paper in the Physics Education Research conference proceedings.

HONORS AND AWARDS

Distinguished Teaching Assistant, 2007-2008, The College of Chemical and Life Sciences, Department of Cell Biology and Molecular Genetics.

PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA)

American Association of Physics Teachers (AAPT)