

# Adam LaMee

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## Goals

- To prepare K-16 students to be scientifically literate, informed citizens ready for STEM careers and beyond
  - To improve science education policy and teacher development by promoting inquiry-based teaching strategies, reflective practices, and peer observation
  - To contribute to physics research and increase my own understanding of the natural world
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## Education

### **Graduate coursework** (2006 - present)

- 9 credits in Industrial Engineering, University of Central Florida
- 30 credits (24 in Physics, 6 in Education), Florida State University
- 6 credits in Science Education, Aurora University

**B.S. Physics/Education Interdisciplinary**, Florida State University, 2003

**B.S. Anthropology**, Florida State University, 2003

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## Employment

**Teacher-in-Residence** (since 2015). Teacher recruitment, project management, K-12 outreach, faculty professional development for NSF-funded PhysTEC program.  
Department of Physics, University of Central Florida, Orlando, FL.

**High school teacher** (2013 - 2015). Physical Science, Physics 1 Honors, AP Physics 1, and IB Physics SL. James S. Rickards High School, Tallahassee, FL.

**Assessment consultant** (since 2013). Physics content expert and game-based stealth assessment design for *Modeling how affect, engagement, and conscientiousness interact and influence learning in Newton's Playground* funded by the Bill & Melinda Gates Foundation.  
Florida State University, Tallahassee, FL.

**Research Assistant** (2011 - 2013) Formative and summative assessment development, implementation, and analysis; teacher trainer on IES-funded project *Improving Science Assessments*. Center for Advancement of Learning and Assessment, Florida State University, Tallahassee, FL.

**High school teacher** (2003 - 2011). Physics 1, Physics 1 Honors, AP Physics B, Chemistry 1. Lincoln High School, Tallahassee, FL.

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## Invited Talks

*Online Learning in High School* (2018, March). Florida Matters radio show, WUSF, University of South Florida.

Keynote speaker (2017, January). Academic Support Center training, Valencia State College, Orlando, FL.

*Transience with Continuity: the TIR Paradox* (2016, July). American Association of Physics Teachers national conference, Sacramento, CA.

*Panel on Florida High School Science Teacher Preparation* (2015, October). Florida State University Physics department, Tallahassee, FL.

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## Publications and Presentations

Victor Sampson, **Adam LaMee**, et. al. (2017). *Argument-Driven Inquiry in Physics: Lab Investigations for Grades 9-12*. Arlington, VA: NSTA Press.

Yuehai Yang, **Adam LaMee**, Jacquelyn J Chini, and Talat S Rahman (2016, March). *An Ongoing Evaluation of the Learning Assistant Program at UCF*. Poster presentation at the national PhysTEC meeting, Baltimore, MD.

Danielle Sherdan, Alan Anderson, Aaron Rouby, **Adam LaMee**, Penny J. Gilmer, and Albert Oosterhof (2014, peer reviewed). Including Often-Missed Knowledge and Skills in Science Assessments. *Science Scope*, 38(1), 56-62.

**Adam LaMee** (2014, April). *Science as Argument: Writing Effective Explanations of Data*. Presentation at the National Science Teachers Association national conference, Boston, MA.

**Adam LaMee** and Lee Walton (2014, April). *Argumentation, Assessment, and the Theory of Evolution*. Presentation at the National Science Teachers Association national conference, Boston, MA.

Fara Rohani, **Adam LaMee**, and Aaron Rouby (2012, December). *Formative Assessment of Complex Science Competencies*. Presentation at the annual conference of the Florida Center for Research in Science, Technology, Engineering, and Math, St. Petersburg, FL.

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## Teaching Experience

**Post-secondary:** undergraduate Physics pedagogy seminar (6 times), senior undergraduate Physics pedagogy and teaching methods (3 times)

**High School Physics:** FL Physics 1 and Physics 1 Honors (36 times), AP Physics (12 times), IB Physics SL (1 time)

**Other High School Science:** FL Physical Science (3 times), FL Chemistry 1 (1 time)

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## Awards and Service

**President** (since 2016). Florida Chapter of the American Association of Physics Teachers.

**Conference coordinator** (2015). Registration, webmaster, facilities, and scheduling for the Florida chapter of the American Association of Physics Teachers annual conference. University of Central Florida, Orlando, FL.

**Mentor teacher** (2003 - 2015). Supervised interns and beginning teachers in Leon County Schools. Tallahassee, FL.

**Quarknet Teaching and Learning Fellow** (since 2014). Coordinator of teacher activities and resources incorporating inquiry and high-energy physics topics for K-12 science students.

**Chair** (2009-2011). Purchasing, professional development coordinator, Science Fair coordinator, staffing evaluation, and curriculum planner for the Lincoln High School Science department. Tallahassee, FL.

**FL DoE Science curriculum expert** (since 2007). Committee member for 2007 NGSSS course descriptions, FL Standards Math and ELA integration, and content expert for the Florida Teacher Certification Exam item review, Florida Department of Education. Tallahassee, FL.

**US-CMS Summer Teacher Fellow** (2004 - 2010). Five-time awardee on the Compact Muon Solenoid hadronic calorimeter assembly, calibration, test beam shifts, and SiPM upgrade testing. CERN, Geneva, SW.

**Student Journalist Supervisor** (2008, April). Traveled with three high school Physics students acting as journalists to cover the CERN Open Days public event promoting the upcoming LHC commissioning. CERN, Geneva, SW.

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## Teacher Education Leadership

**UCF faculty teaching mentor** (since 2015). Coordinator for Physics department faculty pedagogy seminars, peer observation facilitator, individual faculty coaching on reform-based teaching and increasing student learning. University of Central Florida, Orlando, FL.

**Quarknet Data Camp** (since 2014). Workshop leader for high school teacher summer workshop on high-energy physics and inquiry-based classroom activities. Fermilab, Batavia, IL.

**Project CODER** (2016). Designer and leader for 3-day teaching workshops at the University of Central Florida and University of Florida on introductory computer programming for grades 6-12 and analyzing CERN OpenData. NSF-funded by way of a grant from US-CMS. Orlando and Gainesville, FL.

**UCF PhysTEC Summer Workshops** (2016). Designer and leader of workshops for practicing K-12 science teachers and university students interested in teaching. Orlando and Daytona Beach, FL.

**Quarknet Summer Workshops** (since 2014). Lead teacher for FSU and FIT Quarknet centers' 1-week workshops on 6-12 physical science, high-energy physics, and reform-based teaching. Tallahassee and Melbourne, FL.

**BIOSCOPE Physical Science Teacher Institute** (2013, June). Lead facilitator for 2-week summer workshop on 6-12 Physical Science content, Learning Systems Institute, Florida State University. Tallahassee, FL.

**Lesson Study** (2010 - 2011). Facilitator for the Lincoln High School Science department's year-long PLC. Tallahassee, FL.

**Writing in the Science Classroom** (2010, October). Co-leader of written argumentation strategies to support science learning for Language Arts teachers in Leon County Schools. Tallahassee, FL.

**Science Writing as Argument** (2009, January). Co-leader of written argumentation strategies to support science learning at the National Writing Project regional conference. Tallahassee, FL.

**Motion, Forces, and Energy** (2002 - 2008). Co-leader of K-5 teachers 2-week summer workshop on physical science content and inquiry-based activities at the Office of Science Teaching Activities, Florida State University. Tallahassee, FL.

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## Other skills

### Advanced:

- Windows, Mac, & Linux OS; Linux networking
- MSOffice, LoggerPro and Tracker video analysis, Vernier and Pasco probeware
- Electronics, audio/video production

### Proficient:

- Python, Jupyter/iPython notebooks, C++, HTML, CSS, LabView
  - Forklift, dump truck, & remote-operated lift
  - Small and large engine, electrical, plumbing, carpentry
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