

Lynn Christine Reimer
Curriculum Vitae
Education Programs, University Extension
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EDUCATION

Ph.D., Education, University of California, Irvine, 2017
Learning, Teaching, Cognition, and Development
Supported by the National Science Foundation Graduate Research Fellowship Program
Dissertation: *The STEM Lecture Hall: Effective Instructional Practices for Diverse Learners*.
Committee: Mark Warschauer (chair), Jacquelynne S. Eccles, Rachel B. Baker, Di Xu

M.A., Education, Fresno Pacific University, 2009
Integrated Mathematics and Science Education
Thesis: *Problem Solving; An Intentional Component of Daily Mathematics Instruction*
Advisor: Dave Youngs

California Clear Credential, California State University, Fresno, 2001
Multiple Subject, CLAD, Supplemental Authorizations in Mathematics & Science

B.A., Biological Sciences, B.A., German, University of California, Davis, 1991

ACADEMIC APPOINTMENTS

2016- Founding Director, Education Programs, University of California, Merced
University Extension
Founding Director, Teacher Preparation Program
Courses Taught
EDUC X303: Clinical Practice I
EDUC X305: Clinical Practice III
EDUC X313: Technology Supported Project-Based Instruction
EDUC X317: Single Subject Methods - Math
EDUC X390: Curriculum and Professional Development for P-12 Teachers
EDUC X408: Physical Sciences, Math and Scientific Literacy
EDUC X409: Earth and Space Sciences, Math and Digital Literacy

Professional Development Courses:

EDUC 893: Understanding the Next Generation Science Standards (NGSS)

EDUC 894: Project WET (Water Education for Teachers) and NGSS

EDUC 895: Facilitating Students' Mathematical Practices

- 2016-2017 Adjunct Instructor, Fresno Pacific University, Merced
Teacher Education Program
EDUC 643: Teaching Elementary Mathematics
- 2013-2016 Graduate Student Researcher, University of California, Irvine
Digital Learning Lab (DLL)
Director: Mark Warschauer
Lead Researcher, Investigating Learning Environments in Higher Education
- 2015-2016 Lead Researcher, Learning Assistants Pilot
Division of Undergraduate Education
Director: Michael Dennin
- 2015-2016 Instructor, University of California, Irvine
Academic Research and Writing Workshop for First Year PhD students
Director: Jacque Eccles
- 2014-2015 Lab Instructor, University of California, Irvine
EDUC 288A: Educational, Social, and Behavioral Statistics (Stata)
EDUC 288B: Structural Equation Modeling (Stata)
- 2015 Teaching Assistant, University of California, Irvine
Ethics in Education, EDUC 126
- 2013-2014 Educational Technology Coordinator, Azusa Pacific University
- 2012-2013 Adjunct Instructor, Fresno Pacific University

PROFESSIONAL AND ADMINISTRATIVE APPOINTMENTS

- 2012-2013 Interim Principal, Yosemite Unified School District
- 2004-2013 K-12 STEM (Science, Technology, Engineering and Math) Instructor, Yosemite
Unified School District
- 2001-2004 K-12 Integrated Math & Science Instructor, Selma Unified School District

GRANTS

2018-2023. Reimer, L. C. (Evaluator), Menke, E. (PI), Isborn, C., Hratchian, H. P., Stokes, B., Leslie, M. (Co-PIs). Building Capacity: Improving the Undergraduate Chemistry Experience at HSIs by Bridging the GAP (through Green chemistry, Active-learning, and Peer-led experiences). National Science Foundation (#1832538). \$1,442,497.00.

Under Review. Reimer, L. C. (Co-PI), Menke, E. (PI), Hratchian, H. P., Stokes, B., Leslie, M. (Co-PIs), Isborn, C. (CP). Chemistry Undergraduates accessing Research, Industry, and Education (CURIE) Scholars.

2018 – 2019. Reimer, L. C. (Lead Author and Project Lead), Bertolucci, J., Knapp, J., Weibert, J., Ayers, R. (Co-Leads). California Regional Environmental Education Community (CREEC) Network Phenomenon Summit Project Grant. California Department of Education 2017 Budget Act Provision 6. \$80,000. Declined.

REFEREED ARTICLES AND CHAPTERS

Reimer, K.S., & Reimer, L.C. (2017). STAMINA: Persistence and character in youth mentor partnerships. In Peterson, G., Van Slyke, J., Spezio, M., & Reimer, K. (Eds.), *Habits in mind: Integrating theology, philosophy, and the cognitive science of virtue, emotion, and character formation*, (pp. 132-156). Boston, MA: Brill.

Reimer, L.C., Schenke, K., Nguyen, T., O'Dowd, D., Domina, T., & Warschauer, M. (2016). Evaluating promising practices in STEM undergraduate lecture courses. *RSF: The Russell Sage Foundation Journal of the Social Sciences: Higher Education Effectiveness*, 2 (1), 212-231.

Reimer, L.C., Nili, A., Nguyen, T., Domina, T., & Warschauer, M. (2016). Clickers in the wild: A campus-wide study of student response systems. In Weaver, G. C., Burgess, W. D., Childress, A. L., & Slakey, L (Eds.), *Transforming institutions: Undergraduate STEM education for the 21st century* (pp. 383-398). West Lafayette, IN: Purdue University Press.

Reimer, L.C., & Reimer, K.S. (2015). Maturity is coherent: Structural and content-specific coherence in adolescent moral identity. *Journal of Positive Psychology*, 10, 543-552. doi: 10.1080/17439760.2015.1015159

MANUSCRIPTS UNDER REVIEW OR PREPARATION

Reimer, L.C., Leslie, J. M., Bidwell, S., Isborn, C., Lair, D., Menke, E., Stokes, B., Hratchian, H. (Minor Revisions). Aiming toward an effective Hispanic serving chemistry curriculum. In *Growing diverse STEM communities: Methodology, impact, and evidence*.

Reimer, L.C., He, Wenliang, & Link, R. (Under Review). Getting students back on track: Effects of flipping organic chemistry on student achievement study strategies and perceptions of instruction. *Journal of Chemical Education*.

Reimer, L.C., He, Wenliang, & Link, R. (in preparation). Sapling Learning online homework in organic chemistry lecture. *Journal of Chemical Education*.

RESEARCH REPORTS

Nili, A.N., & Reimer, L.C. (2016, February). *The Learning Assistants Pilot: Fall 2015 Preliminary Report*. Report for the Division of Undergraduate Education, UC, Irvine.

Reimer, L.C., Nili, A.N., & Warschauer, M. (2016). NSF Outcomes, WIDER: EAGER project, *Documenting Instructional Practices in STEM Lecture Courses*. Report for the National Science Foundation (NSF) for award# 1256500.

PRESENTATIONS

Hanna, K., Reimer, L., & Nili, A. (2017, April). *First-generation Latino students' success in undergraduate STEM: The importance of instructor-student interactions*. Paper presented at the American Educational Research Association (AERA) annual meeting, Houston, TX.

Ho, P., Nili, A., Reimer, L. (2017, April). *Using Coh-Metrix to analyze writing cohesion in introductory courses with and without learning assistants*. Paper presented at the American Educational Research Association (AERA) annual meeting, Houston, TX.

Link, R., He, Wenliang, & Reimer, L.C. (2016, August). *Getting students back on track: Effects of flipping organic chemistry on student achievement study strategies and perceptions of instruction*. Paper presented at the Biennial Conference on Chemical Education, Greeley, CO.

Link, R., He, Wenliang, & Reimer, L.C. (2016, August). *Sapling Learning online homework in organic chemistry lecture*. Paper presented at the Biennial Conference on Chemical Education, Greeley, CO.

Reimer, L.C., Nili, A.N., & Warschauer, M. (2016, April). *Project SPROUT: Documenting and investigating STEM instruction*. Paper presented at the 2016 NSF/AAAS Envisioning the Future of Undergraduate STEM Education: Research and Practice Symposium, Washington, DC.

Reimer, L.C., Nili, A.N., & Warschauer, M. (2016, April). *Project management*. Session facilitator at the 2016 NSF/AAAS Envisioning the Future of Undergraduate STEM Education: Research and Practice Symposium, Washington, DC.

Rivas, M., Nili, A.N., Reimer, L.C., & Warschauer, M. (2016, April). *Which is better, assessment or participation points? A study of clickers in STEM courses*. Poster presented at the Western Psychological Association (WPA) 96th Annual Convention, Long Beach, CA

Macias, M., Nili, A.N., Reimer, L.C., & Warschauer, M. (2016, April). *Three unique approaches to introductory biology: A comparison of the attitudes and academic outcomes of underrepresented groups*. Paper presented at the American Educational Research Association (AERA) annual meeting, Washington, DC.

Rivas, M., Reimer, L.C., Nili, A.N., & Warschauer, M. (2016, April). *Clicker usage in STEM classrooms at UCI: A two-year study*. Paper presented at the American Educational Research Association (AERA) annual meeting, Washington, DC.

Reimer, L.C. & Nili, A.N. (2016, February). *Investigating learning in higher education: Project SPROUT*. Poster presented at the Southern California PKAL Regional Network Annual Meeting, Irvine, CA.

Reimer, L.C. (2015, September). *Project SPROUT*. UC STEM Lecturer Education Consortium Fall Meeting, Paso Robles, CA.

Rivas, M., Reimer, L.C., Nili, A.N., & Warschauer, M. (2015, August). *A two-year campus-wide study of student response systems in STEM courses*. Poster presented at the UCI Summer Research Program Symposium, Irvine, CA.

Young, W., Earley, D. Reimer, K.S., & Reimer, L.C. (2015, June). *The impact of undergraduate research experiences in education*. Paper presented at the Science and Math Teaching Imperative (SMTI) National Conference, New Orleans, LA.

Nili, A.N., & Reimer, L.C. (2015, May). *Clickers in the wild: A campus-wide study of student response systems*. Poster presented at the Text and Data Mining for Interactive Online Learning, Irvine, CA.

Reimer, L.C., Nili, A.N., Nguyen, T., Schenke, K., Domina, T., & Warschauer, M. (2015, April). *Problem-Solving pedagogies: Enhancing undergraduate STEM outcomes for under-represented students*. Paper presented at the American Educational Research Association (AERA) annual meeting, Chicago, IL.

Reimer, L.C., Schenke, K., Nguyen, T., O'Dowd, D., Domina, T., & Warschauer, M. (2014, December). *Evaluating promising practices in STEM undergraduate lecture courses*. Paper presented at Russell Sage Foundation Conference on Higher Education Effectiveness, New York, NY.

Reimer, K.S., Reimer, L.C., & Tate, T. (2014, November). *Prosocial values and adolescent volunteerism in underserved neighborhoods*. Paper presented at the Association of Moral Education (AME) annual meeting, Pasadena, CA.

Reimer, L.C. (2014, October). *Clickers in the wild: A campus-wide study of student response systems*. Paper presented at Transforming Institutions: 21st Century STEM Undergraduate Education, Indianapolis, IN.

Reimer, L.C., & Reimer, K.S. (2014, April). *Maturity is coherent: Structural and content-specific coherence in adolescent moral identity*. Paper presented at the American Educational Research Association (AERA) annual meeting, Philadelphia, PA.

Reimer, L.C. (2012, November). *Video creation*. Workshop presented at Connecting Conservation and Technology Conference at the Monterey Bay Aquarium, Monterey, CA.

Reimer, L.C., & Fouch, A. (2012, March). *Using technology as a culminating project*. Workshop presented at Middle School Project-Based Science Institute of the Monterey Bay Aquarium, Monterey, CA.

Reimer, L.C., & Fouch, A. (2011, November). *Public service announcements*. Workshop presented at Connecting Conservation and Technology Conference of the Monterey Bay Aquarium, Monterey, CA.

Moore, L., Reimer, L.C., & Fouch, A. (2011, October). *Project-based Science; Strategies for Success*. Workshop presented at California Science Teachers Association Annual Conference, Pasadena, CA.

Reimer, L.C., & Fouch, A. (2011, July). *Project-based Science; How To Conduct a Year-long Project Including Technology*. Workshop presented at Project-Based Science Institute of the Monterey Bay Aquarium, Monterey, CA.

Reimer, L.C. (2009, February). *Teaching geometry through tangrams; Vocabulary, angles and formulas*. Workshop presented at California League of Middle Schools Annual Conference, Sacramento, CA.

INVITED LECTURES

Reimer, L.C. (2017, February). *Alumni Career Chat Employment Success Series (ACCESS); Education*. University of California, Merced, CA.

Reimer, L.C. (2014, February). *Correlation, ANOVA, and multiple regression*. Research Design II (PsyD program). Azusa Pacific University, Azusa, CA.

Reimer, L.C. (2013, October). *Attachment by life stage: Emerging adulthood*. Advanced Developmental Psychology (MA program). Azusa Pacific University, Azusa, CA.

AWARDS

2014 Graduate Research Fellowship (#187698), National Science Foundation (\$132,000)
2014 Moral Development and Education Promise Award, American Educational Research Association (\$400)
2014 Associated Graduate Students Travel Grant (\$400)
2013 Conference Travel and Professional Development Fellowship (\$2,500)
2011 Finalist, Teacher of the Year, Yosemite Unified School District
2009 Finalist, Teacher of the Year, Yosemite Unified School District
1986-1991 Regents Scholar, University of California

ACADEMIC SERVICE

2018- Literacy Coalition of Merced County
2018- Community Engagement Center Committee
2018- Delta Kappa Gamma
2016- San Joaquin Valley University of California (SJVUC) Alumni Fundraising and support for UC Merced undergraduates
2017- Project WET (Water Education for Teachers) Facilitator
2016- Merced Environmental Literacy Collective (MELC)
2017 SJVUC Alumni Network Endowed Scholarship Committee, UC Merced
2017 Science Fair Judge, Merced City School District
2017- Science Fair Judge, Merced County Office of Education
2016-2017 University of California, Extension and Continuing Education Committee to Review Certificate Programs
2015-2016 STEM Lecture Group, University of California System (10 campuses)
2015-2016 Facilitator, Instructor Learning Community, UC Irvine
Instructor Support for working with undergraduate learning assistants
2014-2016 First Generation Faculty Initiative, UC Irvine
Mentoring and support for first generation students
2014-2016 Learning Spaces Advisory Committee, UC Irvine
2014-2016 Mentor, DECADE, UC Irvine
Diverse Educational Community and Doctoral Experience
2015-2016 School of Education Dean Search Committee, UC Irvine
2014-2015 Higher Education Faculty Search Committee, UC Irvine
2014 Pro-Seminar Planning Committee, UC Irvine
2014 Recruitment Weekend Planning Committee, UC Irvine
2013-2014 Mentor, First Generation College Students, Azusa Pacific University

PROFESSIONAL ORGANIZATIONS

Member, American Education Research Association
Member, American Association for the Advancement of Science
Member, National Science Teachers Association

UNDERGRADUATES SUPERVISED: PRESENTATIONS

Tran, N. (2017, May). *Factors that contribute to the success of students who major in Biological Sciences*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Summer research grant: \$1,300.00.

Barajas, P., Gonzalez, S., & Kaur, G. (2016, May). *Transfer shock: Classroom influences on transfer student success in STEM majors at UCI*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$900.00

Carbajal, A., & Westling, W. (2016, May). *The learning assistants pilot: The differential effects on underrepresented students at the University of California, Irvine*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$400.00

Ho, P., & Su, P. (2016, May). *Investigating teaching practices in Writing 39A classrooms for English as Second Language (ESL) Learners*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$700.00

Ho, P., & Su, P. (2016, May). *Investigating teaching practices in Writing 39A classrooms for English as Second Language (ESL) Learners*. Poster presented at the annual Data Science Initiative Spring Symposium, "Fostering Literacy and Learning with Text and Data Mining," Irvine, CA. Recipient of "Best Undergraduate Poster."

Macias, M. (2016, May). *Three unique approaches to introductory biology: A quantitative analysis of the academic outcomes of underrepresented groups*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$350.00

Phan, J. (2016, May). *Examining STEM instructional methods and related effectiveness for disadvantaged Asian-American groups*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$300.00

Tran, N. (2016, May). *The impact of ChemM2LA/LB on Chem1A/B students: A study of the differential effects of lab associated with major course*. Research presented at the

Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$500.00

Casasola, T. (2015, May). *Can flipping the classroom work? Evidence from undergraduate chemistry*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Summer research grant: \$3000.

Macias, M., Lomeli, G., Nguyen, J., & Ho, P. (2015, May). *Three unique approaches to introductory biology: A comparison of the attitudes and outcomes of underrepresented groups*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$500

Park, H., & Khosravi, P. (2015, May). *Progress in practice: The magnitude of influence of the Socratic method in the STEM curriculum*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium, Irvine, CA. Research grant: \$550.

Casasola, T. (2014, May). *Educational Reform in STEM: Students respond to the flipped classroom*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium Irvine, CA. Research grant: \$600.

Grewal, G. (2014, May). *An investigation of the relation between supportive learning environments and female student achievement in first and second year chemistry courses*. Research presented at the Undergraduate Research Opportunity Program (UROP) Annual Symposium Irvine, CA. Summer research grant: \$3000.

UNDERGRADUATES SUPERVISED; HONORS THESES

Gonzalez, S. (2016, June). *Academic and social impacts of a semester vs. a quarter semester*. Thesis for Social Science Honors Program, UC Irvine.

Ho, P. (2015, December). *Student-centered pedagogy in Writing 39A classrooms for English as Second Language (ESL) learners*. Thesis for Social Science Honors Program, UC Irvine.

Lupone, L. (2017, December). *Creating an evidence-based observation protocol for examining scientific inquiry*. Thesis for Campus-wide Honors Program, UC Irvine.

Macias, M. (2015, December). *Three unique approaches to introductory biology: A comparison of the attitudes and outcomes of underrepresented groups*. Thesis for Campus-wide Honors Program, UC Irvine.

Park, H. (2015, December). *Scaffolding and inductive method of instruction in undergraduate physics*. Thesis for Campus-wide Honors Program, UC Irvine.

Phan, J. (2015, December). *Examining STEM instructional methods and related effectiveness for disadvantaged Asian-American groups*. Thesis for Campus-wide Honors Program, UC Irvine.

K-12 EXTRAMURAL AWARDS (STEM)

2012 Technology Grant, Oakhurst Kiwanis (\$450)
2012 Science Grant, Rivergold PTA (\$500)
2011 Classroom Technology Award, Monterey Bay Aquarium (\$2,000)
2011 Science Fridays Program Award, Rivergold PTA (\$1,500)
2011 Classroom Equipment Award (Microscopes), Oakhurst Kiwanis (\$800)
2010 Classroom Equipment Award (K-2 materials), Oakhurst Kiwanis (\$400)
2005 Classroom Equipment Award (Microscopes), Oakhurst Sierra Sunrise Rotary (\$1,200)
2004 Classroom Equipment Award (Triple-Beam Balances), Wensloff, LLC (\$1,200)
2004 Science Field Trip Award, Oakhurst Sierra Sunrise Rotary (\$1,200)

K-12 PROFESSIONAL TRAINING

2017 Project WET (Water Education for Teachers) Facilitator Training
2012-2013 Project-Based Science Institute II, Monterey Bay Aquarium, Monterey, CA
2010-2011 Project-Based Science Institute, Monterey Bay Aquarium, Monterey, CA

K-12 PROFESSIONAL SERVICE

2011-2013 Teacher in Charge, Rivergold School (Yosemite Unified)
2011-2013 Curriculum Advisory Committee, Monterey Bay Aquarium
2010-2013 Director, Science Fridays, Rivergold School (Yosemite Unified)
2010-2013 Facilitator, 7/8 Online Grading Transition, Rivergold School (Yosemite Unified)
2009-2013 Science Benchmark Coordinator, Rivergold School (Yosemite Unified)
2008-2013 GATE Coordinator, Rivergold School (Yosemite Unified)
2008-2013 Electives Coordinator, Rivergold School (Yosemite Unified)
2010-2011 Grade Level Lead, Rivergold School (Yosemite Unified)
2009-2011 Detention Coordinator, Rivergold School (Yosemite Unified)
2008-2011 504 Coordinator, Rivergold School (Yosemite Unified)
2007-2008 Consultant, Yosemite Unified math textbook adoption
2004-2011 Director, Catalina Island Science Excursion, Rivergold School (Yosemite Unified)
2004-2013 Math/Science Coach, Madera County Academic Pentathlon, Rivergold School (Yosemite Unified)
2004-2007 Math/Science Coach, Destination Imagination
2004-2006 Athletics Coach, Rivergold School (Yosemite Unified)
2000-2001 Athletics Coach, Clovis Unified School District