

## Ian Edgar Thacker

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### EDUCATION

- 2015-present      **University of Southern, California**  
Ph.D. Urban Education Policy  
Concentration: Educational Psychology  
Advisor: Gale M. Sinatra, Ph.D.
- 2016-present      M.S. Statistics  
Department of Mathematics
- 2008-2010        **University of California, Berkeley**  
M.A. and Credential in Science and Mathematics Education  
Single Subject Credential: Mathematics  
Advisor: Dor Abrahamson, Ph.D.
- 2001-2005        **University of Colorado, Boulder, CO**  
B.A. Mathematics  
B.A. Physics

### RESEARCH INTERESTS

I am interested mathematics teaching and learning and the influence of teachers' beliefs about mathematical knowledge and knowing on their practice.

### PROFESSIONAL EXPERIENCE

- 2015-present    **Motivated Change Research Lab Team Member**, University of Southern California. Directed by Gale Sinatra, Ph.D. Working as a collaborative team to design and execute various studies examining conceptual change and attitudes related to controversial science topics. Built lab website.
- 2017-present    **Joan Herman & Richard Rasiej Mathematics Initiative Research Assistant**. *Scaled Models for Certificate Delivery*. Total. Award: \$1,000,000. Research Assistant helping to develop research initiative at USC. Built [website](#), helped plan annual conference, contributed to development of five year research agenda.
- 2015-present    **Social Sciences & Humanities Research Council of Canada (SSHRC) Research Assistant**. *Fostering epistemic belief change: The role of epistemic emotions and self-regulated learning*. Total Award: \$497,286. Awarded

\$13,700 to USC. Research Assistant helping to measure change in epistemic beliefs while reading conflicting texts regarding controversial science topics.

- 2015-2017 **Jobs for the Future Research Assistant.** *Scaled Models for Certificate Delivery.* Total. Award: \$99,242. Research Assistant helping to evaluate the outcomes of employer created credentialing programs. Developed multiple measures to assess knowledge, attitude, and motivation, developed research design, and conducted quantitative analysis.
- 2008-2010 **Embodied Design Research Laboratory Team Member,** University of California at Berkeley. Directed by Dor Abrahamson, Ph. D. Worked as a collaborative team to design, execute, and build theory from various design-based research studies investigating the embodied nature of mathematical knowledge. Principal investigator of an empirical study and director of undergraduate and graduate students.
- 2008-2010 **Reasoning Research Group Team Member,** University of California at Berkeley. Directed by Michael Ranney, Ph. D. Worked as a collaborative team to design and execute empirical studies regarding reasoning that occurs when learning controversial science topics like climate change and evolution.

## RESEARCH / PUBLICATIONS

Abrahamson, D., Bryant, M. J., Gutiérrez, J. F., Mookerjee, A. V., Souchkova, D., & **Thacker, I.E.** (2009). Figuring it out: mathematical learning as guided semiotic disambiguation of useful yet initially entangled intuitions. In S. L. Swars, D. W. Stinson & S. Lemons-Smith (Eds.), *Proceedings of the Thirty-First Annual Meeting of the North-American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 5, pp. 662-670). Atlanta, GA: Georgia State University. [Author names are in alphabetical order]

## RESEARCH PRESENTATIONS

### International/National

- Thacker, I.**, Muis, K.R., Danielson, R.W., Sinatra G., Pekrun, R., Winne, P.H., Chevrier, M. (August, 2017). *The Influence of Attitudes and Emotions in Learning from Multiple Texts.* Poster to be presented to the European Association for Research on Learning and Instruction, Tampere, Finland.
- Sinatra, G.M., **Thacker, I.**, & Danielson, R.W. (August, 2017). When Strategic Graphical Interpretation Fails: The Influence of Prior Belief and Political Identity. Spoken presentation to be given to the Society for Text and Discourse, Philadelphia, USA.
- Danielson, R.W., Sinatra, G.M., **Thacker, I.**, & Jacobson, N.G. (August, 2017). *When Strategic Graphical Interpretation Fails: The Influence of Prior Belief and Political*

*Identity*. Poster to be presented to the European Association for Research on Learning and Instruction, Tampere, Finland.

**Thacker, I.** (April, 2017). *Not Too Slippery a Slope: Grounding the Mathematics of Slope in Students' Perceptions of Steepness*. Roundtable to be presented to the Annual meeting of the American Educational Research Association, San Antonio, USA.

**Thacker, I.**, Muis, K.R., Danielson, R.W., Sinatra G., Pekrun, R., Winne, P.H., Chevrier, M. (April, 2017). The Influence of Attitudes and Emotions in Learning from Multiple Texts. Poster to be presented to the Annual meeting of the American Educational Research Association, San Antonio, USA.

Corwin, Z., Ochsner A.K., Maruco, T., Danielson R.W., Tichavakunda, A.A., Kolluri, S., **Thacker, I.**, Galan, C., Sinatra, G., Tierney, W.G. (April, 2017). *A Digital Approach to Increasing College Access in California High Schools*. Symposium to be presented to the Annual meeting of the American Educational Research Association, San Antonio, USA.

**Thacker, I.** (2016) *Fostering Student Grounding of Slope in Perceptions of Steepness*. Roundtable accepted for the 2016 National Consortium for Instruction and Cognition Annual Meeting. Washington DC.

**Thacker, I.** (2015) *Fostering Perceptions of Steepness*. Poster accepted for the 2015 Southwest Consortium for Innovative Psychology in Education Annual Meeting, Albuquerque, NM

## TEACHING

### Courses Prepared to Teach

Learning and Instruction  
Human Motivation  
Multiple Regression  
Introduction to Statistics

### Teaching Experience

#### Graduate Level Teaching Experience

Spring 2017 **Teaching Assistant**, University of Southern California, *EDUC 642: Learning and Instruction*

Spring 2017 **Course Facilitator**, University of Southern California, *Intro Stats Workshop*.

Fall 2016 **Teaching Assistant**, University of Southern California, *EDUC 712: Human*

*Motivation***High School/Undergraduate Teaching Experience**

- 2012-2015    **High School Instructor**, AGBU Manoukian High School, Pasadena, CA  
Physics / Precalculus / Geometry
- 2010-2012    **High School Instructor**, City Arts Technology HS, San Francisco, CA  
Physics / Precalculus / Academic Advisor
- 2009-2012    **Graduate Student Instructor**, University of California, Berkeley, CA  
Physics for Future Presidents. (Undergraduate course)
- 2009-2012    **High School Instructor**, University of California, Berkeley, CA  
Algebra II Instructor. Academic Talent Development Program.
- 2006-2008    **High School Instructor**, Mapleton Early College, Denver, CO  
Geometry / Algebra / Math Support / Academic Advisor
- 2005-2006    **Substitute Teacher**, Denver Public Schools, Denver, CO
- 2004-2005    **Teaching Assistant**, University of Colorado, Boulder, CO  
General Physics (Undergraduates)

**PROFESSIONAL AND ACADEMIC SERVICE**

- 2016-present    **Board Member**, Student Community of Ph.D.'s in Education (SCoPE)
- 2016-present    **Ad-Hoc Reviewer**  
Learning and Instruction  
ZDM (Zentralblatt für Didaktik der Mathematik)  
Educational Psychologist

**HONORS AND AWARDS**

- 2015-present    Rossier Dean's Fellowship, University of Southern California
- 2015-present    USC Graduate Student Travel Fund Recipient
- 2017              NCIC Richard Anderson Grad Student Award Finalist
- 2017              Internal Research Funds Award
- 2016              Graduate Student Government Travel Grant Recipient

**PROFESSIONAL AFFILIATIONS**

American Education Research Association (AERA)  
European Association for Research on Learning and Instruction (EARLI)  
Mathematics Association of America (MAA)  
National Council of Teachers of Mathematics (NCTM)  
National Consortium for Instruction and Cognition (NCIC)

**RELEVANT SOFTWARE SKILLS**

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STATA

SPSS

Web Design: [HTML](#), [Wix](#), Google Sites

Adobe Creative Suite

Google Drive

Microsoft Office

Learning Management Software (Blackboard, TeacherEase)

Math Education Technology (e.g., Desmos, NetLogo, Sketchpad explorer)