

CURRICULUM VITAE

KEMPER LIPSCOMB

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GENERAL INFORMATION

Address: The University of Texas at Austin
Curriculum & Instruction
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Austin, TX 78712

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Professional Preparation

8/2015 – 8/2020 *Doctor of Philosophy*
The University of Texas at Austin
Austin, TX
Department: Curriculum and Instruction
Concentration: STEM Education
Dissertation: Designing for, Learning with, and Teaching using
Computational Modeling
Dissertation Committee Members: Victor Sampson (supervisor),
Maria Gonzalez Tristan, Flavio Azevedo, and Katherine A Biberdorf

8/2008 – 5/2012 *Bachelor of Science*
Florida State University
Tallahassee, FL
Major: Biology and Secondary Science Education

Professional Experience

9/2020 – Present *Assistant Professor of Practice*
College of Education
The University of Texas at Austin
Austin, TX

Responsible for preparing the course syllabus, designing course activities and assignments, leading reading discussions, guiding students to creating lessons and units, and providing field supervision while students observe and teach lessons in area schools.

1/2018 – 5/2020 *Assistant Instructor*

College of Education
The University of Texas at Austin
Austin, TX

Responsible for preparing the course syllabus, designing course activities and assignments, leading reading discussions, guiding students to creating lessons and units, and providing feedback and field support while students teach a 3-day lesson in area schools.

1/2018 – 5/2020 *Teaching Assistant*
College of Natural Sciences
The University of Texas at Austin
Austin, TX

Responsible for designing and implementing weekly discussion sessions using inquiry, collaboration, and reflective practices; creating and monitoring weekly assignments, and advising an undergraduate teaching assistant who leads two discussion sessions.

8/2015 – 12/2017 *Graduate Research Assistant*
The University of Texas at Austin
Austin, TX

Responsible for assisting in literature searches, research design, data collection and analysis of an NSF funded research project (*Computing to Advance Evidence-based Reasoning, Problem Solving, and Computational Thinking in Middle School Students* (#1543022, \$1,250,000, 2015–2017)

8/2012 – 6/2015 *Science Teacher*
Spanish River Community High School (public school)
Palm Beach County School District
Boca Raton, FL

Responsible for teaching secondary science courses (Biology, Honors Biology, and Anatomy and Physiology) and advising students.

Honors and Awards

11/2019 *Finalist, Best Zone 2 Paper.* American Society for Engineering Education Annual Conference, SE Section, Raleigh, NC.

3/2019 *Outstanding Conference Paper Award,* American Society for Engineering Education Annual Conference, SE Section, Raleigh, NC.

Membership in Professional Organizations

8/2015 – Present	American Educational Research Association
8/2015 – 7/2019	National Association for Research in Science Teaching
8/2012 – Present	National Science Teachers Association

TEACHING

Courses Taught

The University of Texas at Austin

Spring 2022	EDC 665: Classroom Interactions/Project Based Instruction
Fall 2021	EDC 370E: Elementary Science Methods
Fall 2021	EDC 365E: Project Based Instruction
Spring 2021	EDC 356E: Project Based Instruction
Spring 2021	EDC 370E: Elementary Science Methods
Fall 2020	EDC 356E: Project Based Instruction
Fall 2020	EDC 370E: Elementary Science Methods
Spring 2020	EDC 356E: Project Based Instruction
Spring 2020	BIO 311D: Introductory Biology II, Graduate Teaching Assistant
Fall 2019	EDC 370E: Elementary Science Methods
Fall 2019	BIO 311D: Introductory Biology II, Graduate Teaching Assistant
Spring 2019	EDC 356E: Project Based Instruction
Spring 2019	311D: Introductory Biology II, Graduate Teaching Assistant
Fall 2018	BIO 311D: Introductory Biology II, Graduate Teaching Assistant
Fall 2018	EDC 356E: Project Based Instruction, Graduate Teaching Assistant
Spring 2018	BIO 311C: Introductory Biology I, Graduate Teaching Assistant

Spring 2018

EDC 356E: Project Based Instruction, Graduate Teaching Assistant

SCHOLARLY OR CREATIVE ACTIVITIES

Publications

Refereed Journal Articles

Bortz, W. W., Gautam, A., Tatar, D., & Lipscomb, K. (2019b). Missing in measurement: Why identifying learning in integrated domains is so hard. *Journal of Science Education and Technology*, 1-16.

Refereed Books

Sampson, V., Murphy, A., Lipscomb, K., & Hutner, T. L. (2018). *Argument-Driven Inquiry in Earth and Space Science: Lab Investigations for Grades 6-10*. Arlington, VA: NSTA Press.

Refereed Book Chapters

Bortz, W. W., Gautam, A., Tatar, D., & Lipscomb, K. (2019). The availability of pedagogical responses and the integration of computational thinking. *Integrating Digital Technology in Education: School-University-Community Collaboration* (pp. 81).

Presentations

Refereed Papers Presented at National or International Conferences

Wall Bortz, W., Gautam, A., Lipscomb, K., & Tatar, D. G. (2020). Design tensions in developing and evaluating an integrated computational thinking performance assessment. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

Gautam, A., Wall Bortz, W., Tatar, D. G., Rivale, S., Lipscomb, K., Orsino, C., & Etzkorn, F. A. (2017). Finding abstraction-comprehension balance: A study of model-based integrated science and computational thinking application. Paper presented at the American Educational Research Association Annual Meeting, San Antonio, TX.

Refereed Papers Presented at Regional or State Conferences

Wall Bortz, W., Lipscomb, K., Gautam, A., Tatar, D. (2019). Integrating Computational Thinking into Middle School Science: A Search for Synergistic Pedagogy. Paper presented at the American Society for Engineering Education Southeastern Section Annual Conference, Raleigh, NC.

Refereed Presentations at Regional or State Conferences

Sherard, M., Lipscomb, K., & Petrosino, A. (2021). *Modeling and place-based STEM learning*. Paper presented at the Equity and racial justice in STEM teacher development virtual summit and UTeach STEM educators virtual conference, Austin, TX.

Lipscomb, K. (2020). *Integrating computational thinking and science through modeling*. Paper presented at the Collaborative Research Forum, Austin, TX.

The Profession

Service to Professional Associations

2018 *Program Proposal Reviewer*, National Association for Research in Science Teaching Annual International Conference