

Kayce L. Mastrup

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School of Education
University of California, Davis

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EDUCATION

Ph.D., Education - Mathematics, University of California Davis. Degree expected June 2020. Dissertation: Connecting Beliefs, Values and Past Experiences with the Instructional Practice of Preservice Math Educators. Advisor: Dr. Rebecca Ambrose

Master of Arts, Educational Technology (iMET 13), California State University Sacramento, May 2014. Thesis: An increase in Technological Stimulation Through Social Media is Negatively Affecting the Ability of Teens to Think, Feel and Bond Deeply. Advisor: Dr. Chia-Jung Chung.

Bachelor of Arts, Mathematics and Liberal Studies Education, California State University Humboldt, May 2006.

AREAS OF SPECIALIZATION

Single Subject Credential: Mathematics

Active

Multiple Subject K-8 Credential

Active

RESEARCH EXPERIENCE

Graduate Student Researcher,

- School of Education, University of California, 2018 – present. Assisted in the organization, facilitation and documentation of CTERIN network team meeting. Coded student focus group interviews using ATLAS.ti.
- Academic Technology Services (ATS), University of California Davis, 2016 – 2018. Working with faculty, analyzed current teaching practices. Provided support for individualized consultations, including, concept to full implementation and assessment. Knowledgeable in effective teaching practices, student engagement strategies, and use of appropriate technologies that meet course learning objectives. Advanced iMovie, Canvas, and Lecture Questioning knowledge. Dr. Andy Jones and Dr. Margaret Merrill.
- Reading Rules Center, University of California Davis, 2015 – 2017. Collected data for ongoing studies including implementation of intervention services designed to help children who are experiencing difficulty with word decoding, reading fluency, and/or reading comprehension. Dr. Emily J. Solari.
- C-STEM Center, University of California Davis, 2015 – 2016. Co-designed a research model for improving math achievement through the use of robotics, and programming. Provided on demand professional development for participating teachers, conducted classroom observations, and coded data gathered from observations, trainings, interviews and assessments for future analysis. Dr. Harry Cheng.

TEACHING EXPERIENCE

Teacher Supervisor, School of Education, UC Davis Credential/MA Program, 2017 – present. Supervise single subject math student teachers during their practical clinical work in their school setting. Provide written, and verbal evaluation of candidate performance.

Associate Instructor

- EDU 122 Children, Learning and Material Culture, UC Davis, Summer Session I, 2018 and 2017. Delivered course content and assessed student learning and understanding of course material.
- EDU 180ABC Computers in Education, UC Davis, Spring 2018 and 2019. Delivered course content and assessed student learning and understanding of course material.

Teaching Assistant, School of Education, UC Davis

Responsible but lectures, exam evaluations and held weekly office hours. Courses included:

EDU 122 Children, Learning and Material Culture (Winter 2017; 2018)

EDU 180ABC Computers in Education (Winter 2018)
EDU 110 Educational Psychology: General (Fall 2017)

Secondary Educator, Secondary Mathematics Educator, Douglass Middle School, Woodland, 2006 – 2013. Developed and implemented standard driven grade level curriculum. Mentored new teachers, aiding in developing solid classroom management skills and instructional practices.

OTHER RELEVANT EXPERIENCE

Curriculum Consultant, Secondary Mathematics, Woodland Joint Unified, 2014 – 2015. Managed a three-program mathematics pilot for Integrated Math I – III. Responsible for organizing program trainings and material swaps for 15 participating teachers.

Teacher on Special Assignment, Secondary Mathematics, Woodland Joint Unified, 2013 – 2015. Managed communication and collaboration between all stakeholders for secondary math. Organized and facilitated professional development for teachers, administrators and parents. Coordinated curriculum development for mathematics curriculum grades 7-12. Managed district secondary math placement guidelines and assessments. Facilitated the creation of district wide benchmark assessments and data analysis teams.

CONFERENCE PAPERS AND PRESENTATIONS

Mastrup, K. (2018, March). *Collaborative learning in classroom networks*. Presentation during EDU130C Knowing and Learning in Mathematics and Science seminar, University of California Berkeley, CA.

Mastrup, K. (2017, November). *Learning mathematics*. Guest lecture during EDU 110 Educational Psychology, University of California Davis, CA.

Mastrup, K. (2017, April). *Mathematical autobiographies: A narrative approach to bridging beliefs, values, and past experiences with future instructional practices*. Talk presented at University of California Berkeley GSE Annual Research Day, Berkeley, CA.

Mastrup, K. (2015, November). *RoboBlockly: Engaging students in computing, robotics and math*. Talk presented at Integrated Computing and STEM Education Conference, University of California Davis, Davis, CA.

ACADEMIC SERVICE

- Student Representative for Math Education to the Education Graduate Student Association for School of Education, UC Davis (2016 – present)

REFERENCES

Tobin White, Ph.D.
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School of Education, UC Davis, One Shields Ave., Davis, CA 95616

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