

ANANYA M. MATEWOS

(née Mukhopadhyay)

Temple University
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EDUCATION

Ph.D. **University of Southern California, Los Angeles, CA**
Urban Education Policy, August 2017
Concentration: Educational Psychology; *Cognate:* Mixed Methods
Committee Co-Chairs: Gale M. Sinatra, Ph.D., Marleen C. Pugach, Ph.D.
Dissertation: *Preparing Teachers for Social Emotional Learning Driven Practice*

B.A. **St. Olaf College, Northfield, MN**
Psychology, May 2009

PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA) – Division C
American Psychological Association (APA) – Division 15
National Consortium for Instruction and Cognition (NCIC)

HONORS AND AWARDS

2018 CEHD CPAC Professional Development Award, University of Minnesota
2017 Rossier School of Education Internal Research Fund Award
2016 Recipient of Richard C. Anderson Graduate Student Research Award
2016 Selected for AERA Division C Graduate Student Seminar
2016 Nominated for USC Graduate Student Dissertation Fellowship
2015 Nominated for Provost's Mentored Teaching Fellowship Award
2012-17 Rossier Dean's Fellowship, University of Southern California.
2009 St. Paul Teaching Fellow
2008 Established Leader Award Nominee, St. Olaf College
2006 Recipient of Tony Sostek Dance Summer Study Scholarship, St. Olaf College
2005 Young Arts (Previously, NFAA) Level 1 Award Winner in Dance
2005 United States Presidential Scholar of the Arts Semifinalist

RESEARCH

Interests: Interdisciplinary scholar studying motivation and cognition (primarily in science learning contexts). Particularly interested in social emotions as they relate to instructional interactions and motivational outcomes. Also, studying imaginative thinking and scientific innovation (from both cognitive and motivational theoretical perspectives).

Expertise: Mixed methods research (qualitative and quantitative design)

- 2018 – Present **Postdoctoral Research Fellow, Teaching and Learning** – Temple University. Under the direction of Dr. Doug Lombardi and Dr. Janelle M. Bailey, primarily working on project funded by the US National Science Foundation, titled “Engaging Students in Scientific Practices: Evaluating Evidence and Explanation in Secondary Earth and Space Science.” Role in the lab includes securing district research approval, project management, study design, data collection, analysis, dissemination, and mentorship of PhD students. Additionally, pursuing independent line of research on scientific imagination and seeking grant funding.
- 2016-2017 **Researcher, CORE-PACE Research Partnership.** Served as qualitative researcher on the research team to design and implement study to measure the impact of including school and teacher evaluations of social and emotional factors on teaching and learning. Contributing author to CORE report and brief.
- 2013-2017 **Research Assistant, Mattel Children’s Foundation, Mattel Speedometry Phase II District Wide RTC.** Total Award: \$784,000.00. Research Assistant contributing to design, professional development, data collection and analysis. Authored studies on student and teacher learning outcomes.
- 2013-2017 **Motivated Change Research Lab Team Leader,** University of Southern California. Directed by Gale Sinatra, Ph. D. Principal investigator for multiple research projects. Served as lead qualitative methods researcher for multiple manuscripts. Mentored junior doctoral students in writing, scholarship, and research design.
- 2008-2009 **Families and Culture Lab Team Member,** St. Olaf College. Directed by Grace Cho, Ph.D. Worked as a collaborative team to study sociocultural factors and parenting processes that may shape children’s emotional and self-concept development.

PUBLICATIONS AND PRESENTATIONS

Refereed Journal Articles

- Vongkulluksn, V. W., **Matewos, A. M.**, Sinatra, G. M., & Marsh, J. A. (2018). Motivational factors in makerspaces: A mixed methods study of elementary school students' situational interest, self-efficacy, and achievement emotions. *International Journal of STEM Education*.
- Pugach, M. C., Gomez-Najarro, J., & **Matewos, A. M.** (2018). A Review of Identity in Research on Social Justice in Teacher Education: What Role for Intersectionality? *Journal of Teacher Education*, 0022487118760567.
- Sinatra, G. M., **Mukhopadhyay, A.**, Allbright, T. N., Marsh, J. A., Polikoff, M. S. (2017). Speedometry: A vehicle for promoting interest and engagement through integrated STEM instruction. *Journal of Educational Research*. DOI: 10.1080/00220671.2016.1273178
- Heddy, B. C., Sinatra, G. M., Seli, H., Taasobshirazi, G. & **Mukhopadhyay, A.** (2016).

Making learning meaningful: facilitating interest development and transfer in at-risk college students. *Educational Psychology*. Published online first March 9, 2016. DOI: 10.1080/01443410.2016.1150420

Pugach, M. C., **Mukhopadhyay, A.**, & Gomez-Najarro, J. (2014). Finally making good on the promise of qualitative research in special education? A response to the special issue. *Remedial and Special Education*, 35(6), 340-343.

Kwon, J., Stephan, S., **Mukhopadhyay, A.**, Muders, M. H., Dutta, S. K., Lau, J. S., & Mukhopadhyay, D. (2009). Insulin receptor substrate-2 mediated insulin-like growth factor-I receptor overexpression in pancreatic adenocarcinoma through protein kinase C δ . *Cancer Research*, 69(4), 1350-1357.

Research Reports

Marsh, J. A., McKibben, S., Hough, H. J., Hall, M., Allbright, T., **Matewos, A. M.**, & Siqueira, C. (2018). Enacting social-emotional learning: Practices and supports employed in CORE districts and schools. Policy Analysis for California Education (PACE).

Marsh, J., Polikoff, M., Sinatra, G., Dhanatya, C., McKibben, S., Allbright, T., Danielson, R. W., Gasparian, H., Le, Q. T., **Mukhopadhyay, A.**, & Young, T. (2015). Promoting STEM interest, enjoyment, and learning through standards aligned curriculum and play: Speedometry evaluation final technical report. Los Angeles, CA: University of Southern California Rossier School of Education.

Book Chapter

Lombardi, D., Heddy, B. C., & **Matewos, A. M.** (Handbook Chapter – In Review). *Values, Attitudes, and Beliefs: Cognitive Filters Shaping Integration of Multiple Representations and Multiple Perspectives*.

Research in Progress

Matewos, A. M., Marsh, J. A., McKibben, S., Sinatra, G. M., Le, Q. T., & Polikoff, M. (Revised and Resubmitted). Teacher learning from supplementary curricular materials: Shifting instructional roles.

Matewos, A. M. (Submitted for Initial Review). Conceptually mapping social emotional learning (SEL) from foundational theories in psychology: a critical review.

Pugach, M. C., **Matewos, A. M.**, & Gomez-Najarro, J. (Submitted for Initial Review). Disability and the meaning of social justice in teacher education research: An ambiguous guest at the social justice table?

Matewos, A. M., Klavon, T., & Bailey, J. M. (Manuscript in progress). Instructional discourse using MEL activities to foster student engagement and critical evaluation.

Matewos, A. M., Vongkulluksn, V. W., Sinatra, G. M., & Marsh, J. A. (Manuscript in Progress).

Creativity and imagination in makerspaces: characterizing structured problem-solving versus unconstrained thinking processes.

Matewos, A. M., Marsh, J. A., Sinatra, G. M., Polikoff, M. (Manuscript in progress). Emotions and task appraisal in enacting new curricula.

Matewos, A. M., Vongkulluksn, V. W, Marsh, J. A., & Sinatra, G. M. (Manuscript in progress) Deconstructing instructional processes in a design-based makerspace class.

Matewos, A. M., Pugach, M. C., & Sinatra, G. M. (Manuscript in progress). Preparing pre-service teachers for social emotional oriented instructional practices: a program case study.

Pending Grants

GeoGame for Earth Science: A Technology-Supported Curriculum to Enhance Middle School Students' Engagement and Learning. Amount requested: \$ 1,399,933

Refereed Presentations

Matewos, A. M. (2019). *Constructing a Conceptual Map of Social Emotional Learning Theories.* Paper accepted for presentation at the annual meeting of the American Educational Research Association Toronto, ON.

Vongkulluksn, V. W., **Matewos, A. M.,** & Sinatra, G. M. (2018). *Gendered experiences in an elementary school makerspace program.* Papers presented at 4th Biennial Network Gender & STEM Conference, Eugene, OR.

Sinatra, G.M., Kaplan, S., Mora-Flores, E., McKibben, S., **Matewos, A.M.,** Marsh, J.A. & Polikoff, M. (2018). *Sparkling young girls' STEM interest: Gender effects of STEM curricula for kindergarten and 4th grade.* Paper presented at 4th Biennial Network Gender & STEM Conference, Eugene, OR.

Matewos, A. M. (2018). *Preparing Teachers for Social Emotional Learning (SEL) Driven Instruction and Practice.* Paper presented at the annual meeting of the American Education Research Association, New York City, NY.

Sinatra, G.M., McKibben, S., & **Matewos, AM.** (2018). *Learning Science and Math with Hot Wheels.* Research Presentation at the Division C Inaugural Youth Research Conference at the annual meeting of the American Education Research Association, New York City, NY.

Vongkulluksn, V.W., **Mukhopadhyay, A.,** Sinatra, G.M, & Marsh, J.A. (2017). *Students' Self-efficacy and Interest in an Elementary Makerspace Program.* Paper presented at the annual meeting of the American Education Research Association, San Antonio, TX.

Vongkulluksn, V.W., **Mukhopadhyay, A.,** Sinatra, G.M, & Marsh, J.A. (2017). *Grit in Makerspaces: The Relationship among Grit, Academic Emotions, and Interest in a Makerspace Program.* Paper accepted for presentation at the annual meeting of the American Education Research Association, San Antonio, TX.

Mukhopadhyay, A., Young, T.K., Marsh, J. A. McKibben, S., Le, Q.T., Sinatra, G.M., & Polikoff, M. (2016). *Grappling with Tensions of Implementing New Curriculum*. Paper presented at the annual meeting of the American Education Research Association, Washington DC.

Marsh, J. A. **Mukhopadhyay, A.,** McKibben, S., Le, Q.T., Polikoff, M., & Sinatra, G.M. (2016). *Teacher Learning for Inquiry Science Instruction: The Centrality of Self-Reflection on Instructional Role*. Paper presented at the annual meeting of the American Education Research Association, Washington DC.

Mukhopadhyay, A. (2016). *Narratives of Teacher Activists: Paths Towards Social Justice Pedagogy*. Paper presented at the annual meeting of the American Education Research Association at Washington DC.

Mukhopadhyay, A., Marsh, J.A., Polikoff, M.S., Sinatra, G.M., & Danielson, R.W. (2015). *Speedometry Curriculum as a Model for Inquiry-based Science Teaching and Teacher Learning*. Paper presented at the annual meeting of the National Consortium for Instruction and Cognition, Chicago, IL.

Danielson, R. W., Sinatra, G. M., Seyranian, V., **Mukhopadhyay, A.,** Heddy, B. C., Marsh, J. A., Polikoff, M. S., Zhou, N., & Hossepian, K. (2015). *Measuring Interest and Emotion in a 4th Grade STEM Unit*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Heddy, B.C., Sinatra, G. M., Greene, B.A., & **Mukhopadhyay, A.** (2015). *Investigating the role of parental values in secondary school girls value for science*. Paper presented at the annual meeting of the American Educational Research Association. Chicago, IL.

Heddy, B.C., Sinatra, G. M., Seli, H. & **Mukhopadhyay, A.** (2014). *Transformative experience as a facilitator of interest development and transfer in a college success course for at-risk students*. Paper presented at the annual meeting of the American Educational Research Association. Philadelphia, PA

Pugach, M. C., Gomez-Najarro, J. M., & **Mukhopadhyay, A.** (2014). *Long Overdue: Rethinking Research on Social Justice in Teacher Education from an Intersectionality Perspective*. Paper presented at the annual meeting of the American Educational Research Association. Philadelphia, PA

Mukhopadhyay, A., Marsh, J., Sinatra, G. M., & Polikoff, M. (2015). *Using Guided Curriculum to Promote Teacher Learning on Inquiry-based STEM Instruction*. Poster presented at the bi-annual meeting of the Southwest Consortium for Innovative Psychology in Education (SCIPIE) at Albuquerque, NM.

Crouch, A.K., **Mukhopadhyay, A.,** & Cho, G.E. (2009). *Student Perceptions of Past Parent-Child Relationships and their Effect on Current Parent-Child Relationships*. Poster presented at annual meeting of Minnesota Undergraduate Psychology Conference, St. Joseph, MN.

TEACHING

- 2017–2018 **Lecturer, Educational Psychology** – University of Minnesota. Teaching courses (Psychological Sciences Applied (EPSY 1281), Psychology of Student Learning (EPSY 5114), Qualitative Research Methods (EPSY 5247), Foundations of Special Education (EPSY 5613), Collaboration (EPSY 5605) in the College of Education and Human Development.
- Fall 2018 **Guest Lecturer**, University of North Carolina, Chapel Hill, *EDUC 922: Mixed Methods Research* – Examining the mixed methods research process.
- Fall 2016 **Guest Lecturer**, Chapman University, *PSY 323-01: Child Development - Social Emotional Learning*
- Spring 2016 **Guest Lecturer**, Chapman University, *PSY 327-01: Lifespan Development - Social Emotional Learning*
- Spring 2016 **Teaching Assistant**, University of Southern California, *EDUC 642: Learning and Instruction*
- Fall 2015 **Teaching Assistant**, University of Southern California, *EDUC 712: Human Motivation*
- Fall 2014 **Teaching Assistant**, University of Southern California, *EDUC 712: Human Motivation*
- Spring 2014 **Teaching Assistant**, University of Southern California, *EDUC: 523: Challenges in Urban Education – Diversity*
- Fall 2013 **Teaching Assistant**, University of Southern California, *EDUC 536: Inquiry Methods II*
- 2011 – 2012 **High School Special Education Teacher**, Learning for Leadership Charter School, Minneapolis, MN. Lead special education teacher managing student IEP's across grades 9-12 in all subject areas.
- 2009 – 2011 **Elementary Special Education Teacher** (Emotional Behavioral Disorders) Hancock Learning Center, St. Paul Public Schools, St. Paul, MN. Lead teacher in 3rd/4th grade self-contained EBD/LD classroom.

SERVICE

- 2018-Present **Committee Member**, Immersion Science, Fox Chase Cancer Center, Philadelphia
- Select promising under-resourced applicants for cancer research training projects
 - Serve on an NIH-format review panel to evaluate student proposal submissions
- 2014-2015 **Member**, NCIC
National Consortium for Instruction and Cognition.

- Designed Annual Newsletter
- Event coordination and support at Annual Meetings

2012-2017 **Vice President; Member**, S.C.o.P.E,
Student Community of PhD's in Education at University of Southern California

- Launched student research symposium
- Created faculty student conversation series – “Facul-tea”
- Launched mentoring award for advanced PhD students
- Elected as Vice President for 2014/15 academic year

2007-2009 **Founder, Co-Chair**, Mind Body Studies Organization, St. Olaf College

- Established popular student group with over 200 active members
- Corresponded with experts in the field to set up workshops, lectures and field trips
- Organized fundraising opportunities to gain capital and raise awareness

2006-2009 **Co-Chair, Treasurer**, Asian Cultures Association, St. Olaf College

- Elected by peers as Co-chair '06-'08, and Treasurer '08-'09 school years