

## CURRICULUM VITAE

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### Farshid Safi

Associate Professor, K-12 Mathematics Education  
University of Central Florida  
College of Community Innovation and Education  
School of Teacher Education  
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### CV AT-A-GLANCE

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- ❖ Ph.D. in Mathematics Education (2009). University of Central Florida
- ❖ Secondary Education **Program Coordinator**, School of Teacher Education, 2023-present
- ❖ 35+ Peer-Reviewed Publications published or in-press
- ❖ **150+ Presentations** Internationally, Nationally, Regionally and Statewide
- ❖ Association of Mathematics Teacher Educators (**AMTE**), **Board of Directors**, 2021-24
- ❖ AMTE Leadership appointments, including 2018 Annual Conference Program Chair
- ❖ **Teaching & Mentoring Awards at 3 institutions** (UCF 2023, TCNJ 2015, UF 1999)

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### ACADEMIC BACKGROUND

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- 2009      Ph.D. in Mathematics Education  
UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL
- Dissertation Title: *Exploring the Understanding of Whole Number Concepts and Operations: A Case Study Analysis of Prospective Elementary School Teachers*
- 2002      Masters of Arts in Mathematics with Specialization in Teaching  
UNIVERSITY OF FLORIDA, Gainesville, FL
- 1993      Bachelor of Science in Mathematics, Minor: Secondary Education  
UNIVERSITY OF FLORIDA, Gainesville, FL

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## PROFESSIONAL EXPERIENCES

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### **University of Central Florida - College of Community Innovation and Education (previously College of Education and Human Performance)**

**2021-Present** Associate Professor, K-12 Mathematics Education (Tenured)

- Serve as the secondary education program coordinator including all content areas including mathematics, science, english language arts, social science, world languages and art education
- Teach mathematics education courses to teacher candidates including elementary and secondary undergraduate, masters and doctoral students
- Co-PI (for UCF) of National Science Foundation Grant PrimeD for Transforming Undergraduate Mathematics Teacher Preparation
- Active teaching and research agenda in mathematics education
- Chair and member of dissertation committees and mentors graduate students
- Engage in grants as PK-12 mathematics content expert including community projects
- Course shepherd for content & methods courses in mathematics education
- Collaborate with local elementary, middle, high schools administrators and teachers in mathematics education and professional development
- Mathematics education elected leadership and service at national level

**2015-2021** Assistant Professor, K-12 Mathematics Education

- Taught mathematics education courses to teacher candidates including elementary and secondary undergraduate, masters and doctoral students
- Affiliate UCF Lockheed Martin Academy faculty member
- Co-PI (for UCF) of National Science Foundation Grant PrimeD for Transforming Undergraduate Mathematics Teacher Preparation
- Active teaching and research agenda in mathematics education
- Chair and member of dissertation committees and mentors graduate students
- Engaged in grants as PK-12 mathematics content expert including community projects
- Course shepherd for content & methods courses in elementary and secondary mathematics education
- Served as internship and field placement coordinator working with teacher candidates in local schools
- Mathematics education elected leadership and service at state and national level

**The College of New Jersey - School of Science, Department of Mathematics & Statistics**  
**2014-2025** Associate Professor, Mathematics Education (Tenured)

- Taught undergraduate mathematics courses through the calculus sequence
- Taught elementary mathematics education content courses
- Taught secondary mathematics education methods courses
- Interdisciplinary research and teaching efforts in a teacher-scholar model
- Served on curriculum and technology task force committees
- Supervised and observed interns in field experiences
- Supported and collaborated with local elementary & secondary schools in mathematics education & professional development of teachers
- Mathematics education leadership and service at state and national level

**2009-2014** Assistant Professor, Mathematics Education

- Taught undergraduate mathematics courses through the calculus sequence
- Taught elementary mathematics education content courses
- Served on curriculum and technology task force committees
- Advised undergraduate students and served as research mentor
- Taught secondary mathematics education methods courses
- Interdisciplinary research and teaching efforts in a teacher-scholar model
- Supervised and observed interns in field experiences
- Supported and collaborated with local elementary & secondary schools in mathematics education & professional development of teachers
- Mathematics education leadership and service at state and regional level

**University of Central Florida - Department of Teaching & Learning Principles**  
**2007-2009** Graduate Teaching & Research Assistant

- Taught undergraduate elementary content courses
- Supervised internship students in field experiences
- Served as lead presenter and mathematic content developer on NSF Grant

**Seminole County Public Schools, Oviedo High School**

**2007-2009** Mathematics Teacher

- Taught Advanced Placement Calculus AB & BC courses
- Taught Algebra 2 and Algebra Honors/Gifted courses
- Co-sponsored Mu Alpha Theta mathematics club for high school students

**University of North Florida - Department of Mathematics & Statistics**

**2004-2006** Mathematics Lecturer

- Taught undergraduate courses including math for liberal arts majors
- Taught undergraduate elementary mathematics education content courses
- Taught methods courses in mathematics and science content areas

**Florida State College at Jacksonville - Department of Mathematics**

**2004-2006** Professor of Mathematics (Downtown Campus & Nassau Center)

- Taught undergraduate courses in mathematics
- Taught courses including beginning/intermediate algebra & college algebra
- Engaged in professional development of adjunct faculty

**University of British Columbia - Vancouver, BC, Canada**

**Simon Fraser University - Vancouver, BC, Canada**

**2002-2004** Mathematics Visiting Lecturer & Adjunct Instructor

- Taught undergraduate courses including math for liberal arts majors
- Taught undergraduate elementary mathematics education content courses
- Taught methods courses in mathematics and science content areas

**University of Florida - Gainesville, FL - Department of Mathematics**

**University of Florida - Office of Instructional Resources Teaching Center**

**1998-2002** Mathematics Lecturer

- Taught undergraduate courses including Precalculus and College Algebra
- Taught finite mathematics courses and math for liberal arts majors
- Taught undergraduate elementary mathematics education content courses
- Coordinated the mathematics tutoring lab that supported student learning
- Trained and supervised 25+ tutors in the areas of mathematics and science

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## SCHOLARSHIP

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### ***Research Foci***

- ❖ Mathematical Modeling and Content Knowledge for Teaching-Mathematics (CKT-M): Developing teachers' conceptual understanding of PK-12 mathematics through equitable teaching practices and mathematical modeling
- ❖ Connecting essential mathematical notions through purposeful technology integration and the use of multiple representations to highlight coherence and progression of topics.
- ❖ Analyzing the evolution of the field of mathematics education and doctorate granting institutions from a historical research perspective using social network theory.

### ***Publications***

\* Denotes current or former student as co-author (undergraduate, graduate, or doctoral)  
 Note: First author is listed first.

### **Authored Books & Book Chapters**

- 1) **Safi, F.**, \*Desai, S., \*Kurtz, B., & \*Abassian, A. (Invited book chapter, In Press). Shifting away from unjust representations: analyzing census data and the connections to gerrymandering. R. Hudson, D. Cox, & S. Harper (Eds.), *Math in Action 9-12*.
- 2) Wolfe, J., & **Safi, F.** (2022). Majority and power: The role of mathematics in making sense of representation. In B. Conway, L. Id-Deen, M.C. Raygoza, A. Ruiz., J. W. Staley, & E. Thanheiser (Eds.), *Middle school mathematics lessons to explore, understand, and respond to social injustice*.
- 3) Nolan, E.C., Dixon, J. K., **Safi, F.**, & Haciomeroglu, E. S. (2016). Making Sense of Mathematics for Teaching High School. Bloomington, IN: Solution Tree Press.

### **Invited Peer Reviewed/ Refereed Publications**

- 1) National Council of Teachers of Mathematics (NCTM) Writing Team (2022-23), **A Position of the NCTM: Equitable Integration of Technology for Mathematics Learning**, <https://www.nctm.org/Standards-and-Positions/Position-Statements/Equitable-Integration-of-Technology-for-Mathematics-Learning-2146929355/>

- 2) \*Desai, S., **Safi, F.**, & \*Kurtz, B. (2021). Elevating students' mathematical identities: A mathematics heritage project. *NCTM Mathematics Teacher: Learning and Teaching PK-12*, 114(5), 408-410.

### **Peer Reviewed/ Refereed Publications**

- 1) \*Edelen, D., Bush, S.B., Skukauskaitė, A., Karp, K. S., Roberts, S. K., **Safi, F.** (2023). The social construction of authorities: An interactional ethnographic examination of positional legitimacy, *Linguistics and Education*, <https://doi.org/10.1016/j.linged.2023.101177>
- 2) \*Desai, S., **Safi, F.**, Bush, S. B., Wilkerson, T., Andreasen, J., & Orey, D. C. (2022). Ethnomodeling: Extending mathematical modeling research in teacher education. *Investigations in Mathematics Learning*, 14(4), 305-319. <https://doi.org/10.1080/19477503.2022.2139092>
- 3) **Safi, F.**, Bush, S. B., & \*Desai, S. (2022) Gerrymandering: When equivalent is not equal!. Introduction by Kevin Dykema. *Mathematics Teacher: Learning and Teaching PK-12*. 115(6), 444-451. doi: <https://doi.org/10.5951/MTLT.2021.0339>. Reprint from original article which appeared in *Mathematics Teaching in the Middle School Mathematics* in 2018, 24(2).
- 4) Rakes, C., Bush, S. B., Fisher, M., Ronau, R., Stites, M., **Safi, F.**, \*Desai, S., Schmidt, A., Andreasen, J., Doering, J., Saderholm, J., Shen, J., Amick, L., Mohr-Schroeder, M., & Viera, J. (2022). Teacher candidate TPACK and their enactment of mathematics practices during full time student teaching. *Education Sciences*, 12(2), 133-149.
- 5) \*Desai, S., Bush, S. B., & **Safi, F.** (2021). Mathematical representations in the teaching and learning of geometry: A review of the literature from the United States. *Electronic Journal for Research in Science and Mathematics Education*, 25(4), 6-22.
- 6) \*Abbaspour, S., & **Safi, F.** (2021). A Student Journey through Trigonometric Concepts: Transitions and Connections from Elementary onto Secondary Mathematics, *Dimensions in Mathematics* 41(2), 22-26.
- 7) Roy, G., **Safi, F.**, Graul, L., & McKlveen, C. (2021). Stacking Cans: Revisited. *Mathematics Teacher: Learning and Teaching PK-12*.
- 8) \*Desai, S., \*Kurtz, B., & **Safi, F.** (2021). *Mathematics heritage project: Empowering identity exploration. Journal Humanistic Mathematics*, 11(2), 106-122.
- 9) **Safi, F.**, Wenzel, T., & Trimble Spalding, L.A. (2020). Remote Learning Community: Supporting Teacher Educators During Unprecedented Times. *Journal of Technology and Teacher Education*, 28(2), 211-222. (Acceptance Rate: ~15%)

- 10) \*Desai, S, & **Safi, F.** (2020). Developing 7th Grade Students' Mathematical Confidence Through the Process of Self-Reflection. *The Journal of Teacher Action Research*, 6 (3), 58-76.
- 11) \*Abassian, A., & **Safi, F.** (2020). Mathematizing Multi-Level Marketing from a Modeling Perspective. *Mathematics Teacher: Learning and Teaching PreK-12*, 113 (5), 416-421. (Acceptance Rate: ~45%)
- 12) \*Kurtz, B., & **Safi, F.** (2020). Women Leaders in Mathematics Education: An Analysis of Gender in Leadership Roles in Professional Organizations. *Journal of Educational Leadership in Action*, Volume 6, Issue 2, Winter 2020.
- 13) \*Desai, S., & **Safi, F.** (2020). Mathematical Art: Lost in Translation. *Mathematics Teacher: Learning and Teaching PK-12*, 113(1). (Acceptance Rate: ~20-25%)
- 14) \*Abassian, A., **Safi, F.**, Bush, S., & Bostic, J. (2020). Five Perspectives of Mathematical Modeling in Mathematics Education. *Investigations in Mathematics Learning*, 12(1), 53-65. doi: 10.1080/19477503.2019.1595360. (Acceptance Rate: ~12-15%)
- 15) Reys, R., Reys, B., Shih, J., & **Safi, F.** (2019). Doctoral Programs in Mathematics Education: A status report of size, origin of program leadership, and recommended institutions. *Notices Of The American Mathematical Society*, 66(2).
- 16) **Safi, F.**, Bush, S. B., & \*Desai, S. (2018). Gerrymandering: When Equivalent Is Not Equal! *Mathematics Teaching in the Middle School*, 24(2), 82-89. (Acceptance Rate: ~20-25%)
- 17) **Safi, F.** & \*Desai, S. (2017). Informing Practice: Promoting Mathematical Connections Using Three-dimensional Manipulatives. *Mathematics Teaching in the Middle School (MTMS)*, 22, pp. 488-492. (Acceptance Rate: ~20-25%)
- 18) Roy, G. J., Bush, S. B., Hodges, T. E., & **Safi, F.** (2017). Mathematics Discussions: Expectations Matter. *Mathematics Teaching in the Middle School (MTMS)*, 23, pp. 98-105. (Acceptance Rate: ~20-25%)
- 19) Roy, G. J., **Safi, F.**, & Graul, L. (2015/2016). Stacking cans: Abstracting from computation. *Mathematics Teaching in the Middle School (MTMS)*, 21, 272-278. **Cover Article** (Acceptance Rate: ~20-25%)
- 20) Tobias, J., Roy, G. J., & **Safi, F.** (2015). Prospective elementary teachers' conceptions of unitizing with whole numbers and fractions. *International Journal for Mathematics Teaching and Learning*, 1-36.
- 21) Roy, G. J., Tobias, J., **Safi, F.**, & Dixon, J. K. (2014). Establishing and sustaining social and sociomathematical norms with prospective teachers in an undergraduate mathematics classroom. *Investigations in Mathematics Learning*, 7(2), 33-64. (Acceptance Rate: ~30%)

- 22) Akyuz, D., Dixon J. K. & **Safi, F.** (2012) Supporting teachers' development of technology-based lessons for algebra and geometry. *Journal of the Applied Education Congress*, Fall 2012.
- 23) **Safi, F.**, & \*Suozzo, E. (2012). Informal introduction to limits: Providing students with a contextual and accessible problem to introduce the concept of a limit. *The New Jersey Mathematics Teacher: Journal of the Association of Mathematics Teachers of New Jersey*, 70(2), October 2012.
- 24) Roy, G. J., & **Safi, F.** (2009). Investigating whole number development using contextually based problems. *Florida Association of Teacher Educators Journal*, 1(8), 70-81.

### **Peer Reviewed/Refereed Conference Proceedings**

- 1) \*Abbaspour, S., **Safi, F.** (2023) The Role Of Beliefs, Visualization And Technology In Teaching And Learning Proof: The Case Of Skylar, *Proceedings of the 45th Annual Meeting of The North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV.
- 2) \*Kebreab, L., Bush, S., Hahs-Vaugh, D., **Safi, F.**, Andreasen, J., Jackson, C. (2023). Establishing a Mathematical Belongingness Construct: Exploratory Factor Analysis of NCE's High School Longitudinal Study 2009. *Proceedings of the 45th Annual Meeting of The North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV.
- 3) \*Desai, S., **Safi, F.**, Bush, S., Andreasen, J., Wilkerson, T., & Orey, D. C. (2022). Engaging Prospective Secondary Teachers in Geometry-Focused Ethnomodeling Explorations. In A. Lischka, J. Strayer, J. Lovett, R. S. Jones & E. Dyer (Eds.), *Proceedings of the 44th Annual Meeting of The North American Chapter of the International Group for the Psychology of Mathematics Education*. Nashville, TN.
- 4) \*Abbaspour, S., **Safi, F.** (2022) Enhancing Exploration and Conjecture Construction through Identifying Patterns by the Use of Technology. Proceedings of the National Council of Teachers of Mathematics Research Conference. Los Angeles, CA.
- 5) \*Abbaspour, S., \*Desai, S., **Safi, F.**, & Andreasen, J. (2021, October 14-18). Consistency in terminology and its effect on equity in learning mathematics: The case of orientation. In D. Olanoff, K. Johnson, & S. Spitzer (Eds.), *Proceedings of the 43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Philadelphia, PA.



- 6) \*Abassian, A., & **Safi, F.** (2018). A Multiple Case Study Exploring the Relationship Between Model-Eliciting Activities (MEAs) and Prospective Secondary Teachers' (PSTs) Mathematical Knowledge for Teaching (MKT) Algebra Topics. In Hodges, T.E., Roy, G.J., & Tyminski, A.M., (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC: University of South Carolina & Clemson University.
- 7) \*Desai, S., & **Safi, F.** (2018). Tracing the Evolution of Mathematical Knowledge for Teaching from a Longitudinal Perspective. In Hodges, T.E., Roy, G.J., & Tyminski, A.M., (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC: University of South Carolina & Clemson University.
- 8) \*Kurtz, B., & **Safi, F.** (2018). Women in Mathematics Education: An Analysis of Gender in Professional Organizations Globally. In Hodges, T.E., Roy, G.J., & Tyminski, A.M., (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC: University of South Carolina & Clemson University.
- 9) **Safi, F.** (2014). A 100-year retrospective on research focus areas and doctoral programs in mathematics education. In Oesterle, S., Nicol, C., Liljedahl, P., & Allan, D. (Eds.) *Proceedings of the Joint Meeting 6 - 221 of PME 38 and PME-NA 36, Vol. 6*. Vancouver, Canada.
- 10) **Safi, F.** (2012) Analyzing the evolution of the field of mathematics education: A historical perspective, *Proceedings of the 34th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education – PME-NA*. Kalamazoo, Michigan.

### **Peer Reviewed/Refereed Manuscripts Revise and Resubmit or Under Review**

- \*Desai, S., **Safi, F.**, Bush, S. B., Wilkerson, T., Andreasen, J., & Orey, D. C. (under revision). Proposing a re-imagined synthesized ethnomodeling (ARISE) framework.
- \*Edelen, D., Bush, S. B., Karp, K., Skukauskaitė, A., **Safi, F.**, & Roberts, S. (under review). The social construction of “help” in a first grade classroom: A microethnographic investigation.
- \*Edelen D., Bush, S. B., Skukauskaitė, A, Karp, K., **Safi, F.**, Roberts, S. K., (in-review). A systematic review of literature: Authority, autonomy, and agency in mathematics education research.
- Rakes, C., Bush, S. B., Fisher, M., Ronau, R., Stites, M., **Safi, F.**, \*Desai, S., \*Schmidt, A., Andreasen, J., Doering, J., Saderholm, J., Shen, J., Amick, L., Mohr-Schroeder, M., &

Viera, J. (Under Revise and Resubmit). Teacher candidate TPACK and their enactment of mathematics practices during full time student teaching.

**Safi, F., & \*Desai, S.** (Under Revise and Resubmit). A Retrospective Analysis of Mathematics Education Doctorates and Doctoral Advisors at Teachers College | Columbia University. *Journal of Mathematics Education at Teachers College*.

\*Schmidt, A., Bush, S. B., Rakes, C., Ronau, R., \*Desai, S., Fisher, M., Amick, L., Viera, J., **Safi, F.**, Andreasen, J., & Saderholm, J. (Under Review). Contributing factors to preservice secondary teachers implementing instruction with mathematical discourse.

### **Peer Reviewed/Refereed Manuscripts In Progress**

**Safi, F., & \*Desai, S., \*Santana, P., & \*Abbaspour, S.** Elevating Students Identity through Mathematical Modeling using Historical, Cultural and Architectural Connections. (In Progress) *A manuscript being prepared for submission to Mathematics Teacher: Learning and Teaching PK-12, 2022-2023.*

\*Desai, S., Nagarajan, J., Safi, F. K., & **Safi, F.** (In Progress). Developing social emotional learning competencies in mathematics instruction through celebrating our cultures and identities.

### ***Presentations***

\* *Denotes current or former student as co-presenter (undergraduate, graduate, or doctoral)*

### **Featured and Invited Presentations**

- 1) **Safi, F., & Abassian, A.** (2023, June 15-17). *5 Equitable Teaching Practices - Focusing on Identity AND Mathematics*. Featured presentation at the Florida Council of Teachers of Mathematics Annual Conference. Orlando, FL.
- 2) **Safi, F., Wolfe, J., & Roy, G. J.** (2022, September 28-29) *Five Equity-Based Practices: Focusing on Intentional Teacher Actions & Valuing Student Identity*. Invited presentation at the National Council of Teachers of Mathematics Annual Conference. Los Angeles, CA
- 3) Lo, M., Myers, M., **Safi, F.**, Wilson, J. (2022, September 28-29) *Reimagining One Mathematics, Many Voices- Our Stories, Our Research and the Resistance to a Previous Normal*. Invited opening session panel presentation at the National Council of Teachers of Mathematics Research Conference. Los Angeles, CA.
- 4) **Safi, F.** (2022, June 16-18). *Mathematical Literacy through Equitable Teaching Practices*. Featured presentation at the Florida Council of Teachers of Mathematics Annual Conference. St. Petersburg, FL.
- 5) **Safi, F.**, Andreasen, J., Desai, S., Schmidt, A., Amick, L., Saderholm, J., & Rakes, C. (2022, February 10-12). *De-siloing prospective teachers' experiences in secondary methods courses*. Featured Session presented at the Twenty-Sixth Annual Conference of the Association of Mathematics Teacher Educators. Las Vegas, NV.

- 6) Aguirre, J., Cordero-Siy, E., Kokka, K., Naresh, N., **Safi, F.** (2022, February 10-12) AMTE Mentoring Early Career Faculty of Color Panel Discussion. Invited panel session by the National Association of Mathematics Teacher Educators Advocacy Committee.
- 7) **Safi, F.**, Yeh, C., & \*Desai, S. (2021, April). *Promoting Equitable Teaching AND Focus on Connections: Don't Settle for Only One*. Invited presentation at the 2021 National Council of Teachers of Mathematics Annual Conference. St. Louis, MO.
- 8) **Safi, F.** (2021, March). *Valuing Identity and Promoting Equitable Teaching Practices in Mathematical Learning Opportunities*. Invited presentation at the 2021 National Council of Teachers of Mathematics Regional Conference. Dallas, TX.
- 9) Altier, E., Ayala, J., Cirillo, M., Haines, C., **Safi, F.**, Staley, J., & Wray, J. (2020, July). *Learning to Teach Mathematics in the Midst of a Pandemic: Voices of Stakeholders*. Invited virtual panel presentation for the Association of Mathematics Teacher Educators.
- 10) **Safi, F.** (2020, July). *Identity, Equitable Teaching Practices AND Mathematical Content & Connections*. Invited keynote presentation for the New Jersey Association of Mathematics Teacher Educators Conference.
- 11) **Safi, F.** (2020, June). *Mathematical Modeling and Equitable Teaching Practices*. Invited presentation at the Council of Chief State School Officers 1st Virtual Conference.
- 12) **Safi, F.** (2020, June). *Promote Equitable Teaching Practices AND Focus on Content & Connections – Don't Settle for Only One!* Invited virtual presentation given for the National Council of Teachers of Mathematics 100 Days of Professional Learning.
- 13) **Safi, F.** (2019, October). *Empowering Students through Teaching for Social Justice: Understanding the Mathematics of Gerrymandering*. Invited presentation at the Florida Council of Teachers of Mathematics Conference. Jacksonville, FL.
- 14) **Safi, F.**, Bush, S. & \*Desai, S. (2019, September). *Empowering Students: Understanding the Mathematics of Gerrymandering - When Equivalent is NOT Equal!* Invited presentation at the National Council of Teachers of Mathematics Regional Conference. Boston, MA.
- 15) **Safi, F.**, Bush, S., & \*Desai, S. (2019, April) *Empower Student Understanding of Gerrymandering: When Equivalent is NOT Equal!* Invited presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Diego, CA.
- 16) **Safi, F.** (2018, October) *Leveraging Mathematical Connections to Empower Student Thinking*. Invited presentation at University of Kansas, Mathematics Department as featured speaker of the Smith Colloquium series. Lawrence, KS.
- 17) **Safi, F.** (2018, October) *Promoting Central Mathematical Ideas across Grade Bands: Equal vs. Equivalent*. Invited presentation at University of Kansas, Mathematics Education Faculty and Students in MATH 110 and C&T 351. Lawrence, KS.

- 18) **Safi, F.** (2017, April) *Demonstrating Connections and Coherence in K-12 Mathematics through Big Ideas*. Invited presentation at the 49<sup>th</sup> Annual National Council of Supervisors of Mathematics (NCSM) Conference. San Antonio, TX.
- 19) **Safi, F.** (2017, April) *Engaging Students in Productive Struggle through Mathematical Modeling*. Invited presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Antonio, TX.
- 20) **Safi, F.** (2016, October). *Equal vs. Equivalent: You Make the Call!* Invited Closing Session Ignite Talk. Invited presentation at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Orlando, FL.
- 21) **Safi, F.** (2012, September) *Opportunities and Challenges in Learning and Teaching Mathematics*. Invited presentation at Middle East Technical University. Ankara, Turkey.
- 22) **Safi, F.** (2012, September) *Supporting Teachers' Development of Technology-Based Lessons for Algebra and Geometry*. Invited paper presented at the Applied Education Congress. Ankara, Turkey.
- 23) **Safi, F.** (2011, October). *Developing Students' Ability to Reason and Conjecture with Dynamic Technology*. Invited presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Atlantic City, NJ.
- 24) **Safi, F.** (2011, October). *Promoting Classroom Discourse and Developing Questioning Strategies Using Dynamic Technology*. Invited presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Atlantic City, NJ.

### **Peer Reviewed/Refereed International & National**

- 1) \*Desai, S., **Safi, F.**, Wilkerson, T., & Bush, S. B. (2023, October), *Ethnomodeling as a vehicle for catalyzing change in teacher education*. Presentation to be given at the Annual Meeting and Exposition of the National Council of Teachers of Mathematics. Washington, DC.
- 2) \*Desai, S., & **Safi, F.** (2023, February 2 – 4). *Impact of Secondary Mathematics Preservice Teachers' Engagement in Geometry Focused Ethnomodeling Explorations*. Presented at the Twenty-Seventh Annual Conference of the Association of Mathematics Teacher Educators. New Orleans, LA.
- 3) \*Edelen, D., & **Safi, F.** (2023, February 2 – 4). *The Social Construction of Authorities in an Early Elementary Classroom: Implications for Mathematics Teacher Education*. Presented at the Twenty-Seventh Annual Conference of the Association of Mathematics Teacher Educators. New Orleans, LA

- 4) \*Desai, S., **Safi, F.**, Bush, S., Andreasen, J., Wilkerson, T., & Orey, D. C. (2022, November 17-20). *Engaging Prospective Secondary Teachers In Geometry Ethnomodeling Explorations*. Brief research report presented at the 44th North American Chapter of the International Group for the Psychology of Mathematics Education Conference. Nashville, TN.
- 5) \*Desai, S., \*Abassian, A., \*Kurtz, B., & **Safi, F.** (2022, September 28 – October 1). *Ethnomodeling: Connecting art, history, culture, and mathematical modeling* [Workshop]. Presented at the 2022 National Council of Teachers of Mathematics Annual Conference. Los Angeles, CA.
- 6) \*Abbaspour, S., **Safi, F.** (2022, September 28- October 1). *Using Technology to Visualize Dynamic Mathematical Concepts*. Presented at the 2022 National Council of Teachers of Mathematics Annual Conference. Los Angeles, CA.
- 7) **Safi, F.**, & \*Desai, S. (2022, June 29 – July 1). *Exploring the Impact of CGI on Secondary Education*. Presented at the CGI 2022 National. Orlando, FL.
- 8) **Safi, F.**, & \*Desai, S. (2022, June 29 – July 1). *Integrating Technology to Center Student Thinking*. Presented at the CGI 2022 National. Orlando, FL.
- 9) **Safi, F.**, Bush, S. B., & \*Desai, S. (2022, March 12). *Mathematical Representations in the Teaching and Learning of Geometry in the United States*. Presented at International Consortium for Research in Science and Mathematics Education. Virtual.
- 10) Harper, S. R., Cox, D. C., Abel, T., Alyami, H., \*Desai, S., Glassmeyer, D., **Safi, F.**, & Knurek, R. (2022, February 10-12). *Developing the mathematical literacy of prospective secondary mathematics teachers through interdisciplinary and relevant contexts*. Session to be presented at the Twenty-Sixth Annual Conference of the Association of Mathematics Teacher Educators. Las Vegas, NV.
- 11) Abbaspour, S., Desai, S., **Safi, F.**, & Andreasen, J. (2021, October 14-18). *Consistency in terminology and its effect on equity in learning mathematics: The case of orientation*. Poster presented at 43<sup>rd</sup> North American Chapter of the International Group for the Psychology of Mathematics Education Conference. Philadelphia, PA.
- 12) **Safi, F.** (2021, November 5-6). *Equitable Practices in Supporting Students & Teachers*. California Mathematics Council Conference. Palm Springs, CA.
- 13) \*Kurtz, B., \*Desai, S., & **Safi, F.** (2021, September 22-25). *TechQuity: Exploring zero-cost digital resources for algebra, geometry, & statistics*. Workshop presented at 2021 National Council of Teachers of Mathematics Annual Conference. Atlanta, GA. (Conference canceled – COVID19)
- 14) \*Kurtz, B., \*Desai, S., & **Safi, F.** (2021, April). *The Imperfect Storm: Using NOAA Hurricane Models to Teach Confidence Intervals*. Session to be presented at 2021 National Council of Teachers of Mathematics Annual Conference. St. Louis, MO.

- 15) \*Abassian, A., & **Safi, F.** (2021, April). *Modeling Our Way to Quantitative Literacy*. Session to be presented at 2021 National Council of Teachers of Mathematics Annual Conference. St. Louis, MO.
- 16) **Safi, F.**, \*Abassian, A., Roy, G. & \*Kebreab, L. (2020, April). *Modeling Equitable Teaching Practices: Focusing on Identity, Intentionality, and Privilege to Achieve Desired Learning Outcomes*. Presentation to be given at the 52<sup>nd</sup> National Council of Supervisors of Mathematics (NCSM) Annual Conference. Chicago, IL. (Conference canceled – COVID19)
- 17) \*Abassian, A. & **Safi, F.** (2020, April). *ReIgniting Mathematical Wonder through Mathematical Modeling*. Presentation to be given at the Centennial Annual Meeting and Exposition of the National Council of Teachers of Mathematics. Chicago, IL. (Conference canceled – COVID19)
- 18) \*Abbaspour, S., & **Safi, F.** (2020, February) *Enhancing Prospective Teachers' Experiences Regarding the Progression & Coherence of Topics in Mathematics Education Content Courses*. Poster presentation at the 24<sup>th</sup> annual meeting of the Association of Mathematics Teacher Educators. Phoenix, AZ.
- 19) **Safi, F.**, Bush, S. & \*Desai, S. (2019, September) *Empowering Student Understanding of Gerrymandering: When Equivalent is NOT Equal!* Presentation at the meeting of the National Council of Teachers of Mathematics. Boston, MA.
- 20) Roy, G., Hodges, T., & **Safi, F.** (2019, April) *Why Mathematics? To Explore the World around Us All*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Diego, CA.
- 21) **Safi, F.**, & \*Desai, S. (2019, February) *Trends in Mathematics Education Dissertation Research Focus Areas (Who, Where and When): A Longitudinal Perspective*. Presentation at the 23<sup>rd</sup> annual meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- 22) Nickels, M., Bush, S. B., **Safi, F.**, \*Singleton, T., & Guzman, E. (2019, February). *Racial/cultural identity consciousness and mathematics education: Community autoethnography*. Presentation given at the Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- 23) \*Desai, S., & **Safi, F.** (2018, November) *Tracing the Evolution of Mathematical Knowledge for Teaching from a Longitudinal Perspective*. Poster presentation at the 40th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education. Greenville, SC.
- 24) \*Kurtz, B. & **Safi, F.** (2018, November) *Women in Mathematics Education: An Analysis of Gender in Professional Organizations Globally*. Poster presentation at the 40th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education. Greenville, SC.
- 25) **Safi, F.** & Andreasen, J. (2018, April) *Exploring Progression of Mathematical Modeling from Elementary to High School*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Washington, D.C.

- 26) \*Abassian, A. & **Safi, F.** (2018, April) *Making Sense of the World through Mathematics, and of Mathematics through the World*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Washington, D.C.
- 27) Eli, J. & **Safi, F.** (2018, April) *We Got This! Engaging Students in Equitable Group Collaboration with Challenging Mathematics*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Washington, D.C.
- 28) **Safi, F.** & Eli, J. (2018, April) *Working Together: Building Mathematical Knowledge for Teaching through Equitable Teaching Practices*. Presentation at the 50<sup>th</sup> Annual National Council of Supervisors of Mathematics (NCSM) Conference. Washington, D.C.
- 29) **Safi, F.** & \*Abassian, A. (2018, February) *Exploring Mathematical Modeling in Relation to Secondary Preservice Teachers' Content Knowledge*. Presentation at the 22<sup>nd</sup> annual meeting of the Association of Mathematics Teacher Educators. Houston, TX.
- 30) **Safi, F.** (2017, December) *Structures to Support Change in Secondary Mathematics Instruction*. Presentation at the Learning Forward 2017 Annual Conference. Orlando, FL.
- 31) **Safi, F.** & \*Abassian, A. (2017, April) *Implement and Reflect on Challenging Mathematical Modeling Tasks to Engage and Empower ALL Students*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Antonio, TX.
- 32) Roy, G., **Safi, F.**, & Dean, B. (2017, April) *Building Conceptual Understanding: Exploring and Connecting Mathematical Ideas Using Technology*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Antonio, TX.
- 33) \*Abassian, A. & **Safi, F.** (2017, April) *Exploring Progression of Mathematical Modeling from Elementary to High School*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Antonio, TX.
- 34) **Safi, F.** (2017, April) *Examining the Role of Mathematical Content Knowledge in Using Dynamic Technology to Explore Meaningful Tasks*. Presentation at the 49<sup>th</sup> Annual National Council of Supervisors of Mathematics (NCSM) Conference. San Antonio, TX.
- 35) **Safi, F.** & \*Abassian, A. (2017, February). *Informing Instructional Practice and Pedagogical Preparation Through Mathematical Modeling*. Presentation at the 21<sup>st</sup> annual meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- 36) **Safi, F.**, & Roy, G. J. (2016, April). *Demonstrating the Relevance of Mathematics through Modeling Using Technology*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Francisco, CA.
- 37) **Safi, F.** (2016, February). *Mathematical Modeling Using a Social Justice Lens*. Presentation at the International Conference on Poverty, Globalization and Schooling (ICGPS) 2016 Conference. Orlando, FL.

- 38) **Safi, F.** (2016, February). *Developing Mathematical Content Knowledge for Teaching Using Modeling Tasks*. Presentation at the Research Council on Mathematics Learning 43<sup>rd</sup> Annual Conference. Orlando, FL.
- 39) Yee, S. P., & **Safi, F.** (2016, January). *Integrating Recursive Pedagogical Content Knowledge with the Tower of Hanoi*. Presentation at the 20<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 40) **Safi, F.**, & Roy, G. J. (2015, April). *Effective Teaching Practices In Integrating Technology To Address Student Misconceptions*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Boston, MA.
- 41) **Safi, F.** (2015, February). *A 100-Year Retrospective On Mathematics Education Research Focus Areas And Doctoral Programs*. Presentation at the 19<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 42) **Safi, F.**, & Roy, G. J. (2014, November) *Technology And Mathematical Practices: Impact On Classroom Discussions And Understanding*. Presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Richmond, VA.
- 43) **Safi, F.** (2014, July). *A 100-Year Retrospective On Research Focus Areas And Doctoral Programs In Mathematics Education*. Presentation at the 38th International Conference of the International Group for the Psychology of Mathematics Education. Vancouver, B.C.
- 44) Roy, G. J., & **Safi, F.** (2014, April). *Figurate Numbers: What's Your Representation?* Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. New Orleans, LA.
- 45) **Safi, F.** & Roy, G. (2014, April). *Technology's Role In CCSS: Student Engagement & Rich Mathematical Tasks*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. New Orleans, LA.
- 46) **Safi, F.** (2014, February). *Impact Of Academic Institutions And Doctoral Programs In The Development Of Mathematics Teacher Educators*. Presentation at the 18<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 47) **Safi, F.** (2012, November) *Analyzing The Evolution Of The Field Of Mathematics Education: A Historical Perspective*. Poster presentation at the 34th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education. Kalamazoo, MI.
- 48) Roy, G. & **Safi, F.** (2012, April). *Using Technology To Construct The Definition Of Similarity*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Philadelphia, PA.
- 49) Reys, R.E., Jackson, C., **Safi, F.**, Newton, J.A., Moore., K.C. (2012, January) *STaR - Service, Teaching And Research – An Opportunity For New Doctorates In Mathematics Education*. Panel presentation at the 16<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Fort Worth, TX.



- 50) **Safi, F.** (2011, April). *Exploring Areas Of Triangles: Five Students, Five Different Perspectives*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Indianapolis, IN.
- 51) Reys, R.E., Fisher, B.C, **Safi, F.**, Welder, R.M., Newton, J.A. (2011, January) *STaR - Service, Teaching And Research - An Opportunity For New Doctorates In Mathematics Education*. Panel presentation at the 15<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 52) **Safi, F.** (2011, January). *Exploring Pre-Service Secondary Mathematics Teachers' Thinking About Questioning*. Presentation at the 15<sup>th</sup> annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- 53) **Safi, F.** (2011, January). *Mathematics Education Genealogy Project – Connecting Mathematics Educators Past And Present*. Presentation at the 15<sup>th</sup> annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- 54) Roy, G., & **Safi, F.** (2010, April). *Using Context To Support Algebraic Reasoning*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. San Diego, CA.
- 55) **Safi, F.** (2010, January). *Bridging The Disconnect In High School Mathematics Using Dynamic Technology-Supported Instruction*. Presentation at the 14<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 56) Roy, G., Tobias, J.M., **Safi, F.** & Dixon, J.K. (2010, January) *Prospective Teachers' Development Of Whole Number Concepts And Operations*. Presentation at the 14<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 57) Dixon, J.K., Tobias, J.M., Roy, G., & **Safi, F.** (2010, January) *Supporting Teachers' Efforts To Establish Productive Social Norms For Learning Mathematics*. Presentation at the 14<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Irvine, CA.
- 58) Roy, G., & **Safi, F.** (2009, April). *Context-Based Problem Solving With Children*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Washington, DC.
- 59) Tobias, J.M., Roy, G. & **Safi, F.** (2009, February). *Prospective Teachers' Development Of Number And Operations*. Presentation at the annual meeting of Association of Mathematics Teacher Educators. Orlando, FL.
- 60) **Safi, F.**, & Roy, G. (2008, April). *Shedding Light On Uncertainties In Understanding Whole- Number Operations*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Salt Lake City, UT.

- 61) Andreasen, J. B., Roy, G., **Safi, F.**, Tobias, J. M., & Dixon, J. K. (2008, January). *Prospective Teachers' Development Of Mathematical Knowledge For Teaching Related To Number And Operations*. Presentation at the 12<sup>th</sup> annual meeting of Association of Mathematics Teacher Educators. Tulsa, OK.
- 62) Roy, G., & **Safi, F.** (2007, March). *The Algebra Of Number And Operation*. Presentation at the annual meeting and exposition of the National Council of Teachers of Mathematics. Atlanta, GA.

### **Peer Reviewed/Refereed Regional**

- 1) Kurtz, B., Desai, S., & **Safi, F.** (2022, February 2-4). *Notice, (CDC) Wonder: Using CDC wonder to explore public health with regression activities*. To be presented at 2021 National Council of Teachers of Mathematics Annual Conference. New Orleans, LA.
- 2) \*Desai, S., \*Abbaspour, S., Andreasen, J., & **Safi, F.** (2022, November 17-20). *Clarity with orientation: Supporting multilingual learners*. Session presented at the National Council of Teachers of Mathematics Virtual Conference. Virtual.
- 3) **Safi, F.** (2017, October) *Connecting Central Mathematical Ideas Across Grade Bands: Exploring "Equal or Equivalent?"* Presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Orlando, FL.
- 4) \*Desai, S. & **Safi, F.** (2017, October) *Promoting Mathematical Connections Using 2-D and 3-D Manipulatives*. Presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Orlando, FL.
- 5) \*Abassian, A. & **Safi, F.** (2017, October) *Making Sense of Mathematics Through Modeling*. Presentation at the regional meeting and exposition of the National Council of Teachers of Mathematics. Orlando, FL.

### **Peer Reviewed/Refereed State/Local**

- 1) Abbaspour, S., & **Safi, F.** (2023, June 15-17). *Proof as a Process or Product*. Session to be presented at the Florida Council of Teachers of Mathematics. Orlando, FL.
- 2) **Safi, F.** (2021, June 10-12). *Identity, Equitable Teaching Practices AND Mathematical Content & Connections*. 2021 Florida Council of Teachers of Mathematics Annual Conference. Orlando, FL.
- 3) **Safi, F.** (2021, June 10-12) *Learn How to Contribute to FCTM Dimensions in Mathematics*. 2021 Florida Council of Teachers of Mathematics Annual Conference. Orlando, FL.
- 4) \*Desai, S., \*Abassian, A. & **Safi, F.** (2021, June 10-12). *Mathematical modeling through a lens of art and culture* [Workshop]. 2021 Florida Council of Teachers of Mathematics Annual Conference. Orlando, FL.
- 5) **Desai, S.**, & Safi, F. (2020, April). *Editing Google Slides during Sessions*. Virtual session presented at Remote Learning Community Mini Pop-in Conference. University of Central Florida, Orlando, FL.

- 6) \*Abassian, A., & **Safi, F.** (2019, October). *Reigniting Mathematical Wonder through Mathematical Modeling*. Presentation at the Florida Council of Teachers of Mathematics Conference. Jacksonville, FL.
- 7) \*Desai, S., \*Kurtz, B., & **Safi, F.** (2019, October). *Integrating Student Identity and Cultural Heritage in Mathematical Explorations*. Presentation at the Florida Council of Teachers of Mathematics Conference. Jacksonville, FL.
- 8) **Safi, F.**, Bush, S. & \*Desai, S. (2018, October). *Gerrymandering: When Equivalent is NOT Equal*. Presentation at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Daytona Beach, FL.
- 9) **Safi, F.**, \*Abassian, A. & \*Abbaspour, S. (2018, October). *Mathematical Sense Making and Understanding Social Contexts: A Beautiful & Necessary Partnership*. Presentation at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Daytona Beach, FL.
- 10) **Safi, F.**, Bush, S. & \*Desai, S. (2018, October). *Gerrymandering: When Equivalent is NOT Equal*. Presentation at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Daytona Beach, FL.
- 11) \*Abassian, A. & **Safi, F.** (2018, October). *Dive Into Mathematics Through Model-Eliciting Activities*. Presentation at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Daytona Beach, FL.
- 12) **Safi, F.** (2018, April). *Mathematical Literacy to Engage, Educate, and Empower Each and Every Student. (Featured Speaker)*. Presentation at the 20<sup>th</sup> Annual Literacy Symposium – Celebrate the Power of Literacy to Transform Lives. Orlando, FL.
- 13) **Safi, F.** (2016, October). *Developing Conceptual Understanding: Exploring and Connecting Mathematical Ideas Using Multiple Representations*. Presented at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Orlando, FL.
- 14) \*Abassian, A. & **Safi, F.** (2016, October). *The Development of Mathematical Modeling from Elementary to High School*. Presented at the annual meeting and exposition of the Florida Council of Teachers of Mathematics. Orlando, FL.
- 15) **Safi, F.** (2016, April). *Role of Literacy in Developing Mathematical Understanding and Fluency. (Featured Speaker)*. Presentation at the 18<sup>th</sup> Annual Literacy Symposium – Crossing Boundaries: Literacy and STEAM Education. Orlando, FL.
- 16) **Safi, F.**, & \*Abassian, A. (2015, October). *Engaging Students through Mathematical Modeling*. Presentation at the 63<sup>rd</sup> Annual Conference of Florida Council of Teachers of Mathematics (FCTM). Orlando, FL.
- 17) Andreasen, J., & **Safi, F.** (2015, October). *Equal vs. Equivalent: Are They the Same?* Presentation at the 63<sup>rd</sup> Annual Conference of Florida Council of Teachers of Mathematics (FCTM). Orlando, FL.

- 18) **Safi, F.** (2014, October). *Rich Mathematical Tasks To Promote CCSS Mathematical Practices*. Presentation at the Association of Mathematics Teachers of New Jersey's 25<sup>th</sup> Annual Two- Day Conference. New Brunswick, NJ.
- 19) **Safi, F., & \*Wegman, A.** (2013, October) *Technology And Mathematical Practices: Impact On Classroom Discussion And Understanding*. Presentation at the Association of Mathematics Teachers of New Jersey's 24<sup>th</sup> Annual Two-Day Conference. East Windsor, NJ.
- 20) **Safi, F.** (2013, May) *A Historical Perspective On The Field Of Mathematics Education*. Presentation at the 7<sup>th</sup> Annual Conference of the New Jersey Association of the Mathematics Teacher Educators. Ewing, NJ.
- 21) **Safi, F.** (2013, April) *Using Technology To Energize Classroom Discussions And Deepen Mathematical Reasoning And Understanding*. Presentation at the Association of Mathematics Teachers of New Jersey's Teaching with Technology Conference. Fair Lawn, NJ.
- 22) **Safi, F.** (2012, October) *Developing Students' Ability To Reason And Conjecture With Dynamic Technology*. Presentation at the Association of Mathematics Teachers of New Jersey's 23<sup>rd</sup> Annual Two-Day Conference. East Windsor, NJ.
- 23) **Safi, F.** (2012, June) *The Mathematics Education Genealogy (MEG) Project: A Collaborative Effort In Data Visualization*. Poster presentation at the national Council on Undergraduate Research (CUR) Conference. Ewing, NJ.
- 24) **Safi, F.** (2011, November). *Exploring The Role Of Technology In The Teaching And Learning Of Mathematics*. Presentation at The College of New Jersey's School of Science Colloquium Series. Ewing, NJ.
- 25) **Safi, F.** (2011, May). *Exploring Different Student Perspectives Of The Area Of A Triangle Utilizing Dynamic Technology*. Presentation at the annual meeting of the New Jersey Association of Mathematics Teacher Educators. Ewing, NJ.
- 26) **Safi, F.** (2010, May). *Using Contextualized Problems To Examine Pre-Service Elementary Teachers' Understanding Of Student Misconceptions*. Presentation at the annual meeting of the New Jersey Association of Mathematics Teacher Educators. Ewing, NJ.
- 27) **Safi, F.** (2008, November). *Prospective Elementary Teachers' Individual Understanding Of Whole Number Concepts And Operations*. Poster presentation at annual meeting of the Florida Educational Research Association. Orlando, FL.
- 28) **Safi, F.** (2008, October). *Teaching Calculus Concepts Emphasizing Depth And Understanding With Focus On Standards*. Presentation at the 55<sup>th</sup> annual conference of the Florida Council of Teachers of Mathematics. Jacksonville, FL.
- 29) Roy, G., & **Safi, F.** (2008, September). *Investigating Whole Number Development Using Contextually Based-Problems*. Presentation at the annual conference of Florida Association of Teacher Educators. Orlando, FL.

- 30) **Safi, F.** (2008, June). *Prospective Elementary Teachers' Individual Understanding Of Whole Number Concepts And Operations*. Presentation at mini-conference of the Florida Association of Mathematics Teacher Educators. Orlando, FL.
- 31) **Safi, F.** (2008, March). *Analyzing Pre-Service Elementary Teachers' Understanding Of Whole Number Concepts And Operations From The Individual Perspective*. Presentation at the University of Central Florida's First Annual Faculty and Student Research Poster Symposium. Orlando, FL.
- 32) **Safi, F.** (2007, October). *Problem Solving, Linear Thinking And Higher Mathematics*. Workshop presentation at the annual conference of the Florida Council of Teachers of Mathematics. Orlando, FL.

### **Grants and Other Funded Projects**

#### **Funded**

*Collaborative research: Transforming undergraduate mathematics teacher preparation using the PrimeD framework.* (2020-2024). National Science Foundation (NSF): Improving Undergraduate STEM Education (IUSE). Award ID: 2013266. Rakes, C. (Overall PI), Bush, S. B. (UCF PI), Mohr-Schroeder, M. J. (UK PI), Saderholm, J. C. (BC PI), Stites, M. (UMBC Co-PI), Andreasen, J. (UCF Co-PI), **Safi, F.** (UCF Co-PI), Amick, L. (UK Co-PI), Fisher, M. (UK Co-PI), & Viera, J. (BC Co-PI). \$2,975,413. (UCF portion = \$968,578, **Safi** 25% effort). (funded, ongoing)

*Research to Practice Communications and Community Engagement Plan.* (2019-2020) UCF Downtown Interdisciplinary Research Incentive (DIRI), Stawser, M., Zygouris-Coe, V., **Safi, F.**, & Sellnow, D., funded, \$7,000.

*STEM satellites: A mobile mathematics and science initiative for Orlando metropolitan area children's hospitals.* Federal National Aeronautics and Space Administration (NASA) CP4SMPVC+, #NNX16AM34G. (2016-2017). Newman, J. (PI), Lanman, B. (Co-PI), Nickels, M. (Co-PI and UCF PI), Cullen, C. (Co-PI) & **Safi, F.** (Co-PI 2016-2017). \$1,250,000. (UCF Portion = \$458,579) (Grant is funded for 2016-2021, my role in grant is strictly for 2016-2017).

Little, M., Kelley, M., Wenzel, T., **Safi, F.**, & Ortiz, E. (2016-2017) *Implementing Intensive Interventions in Reading and Mathematics to Improve Student Learning*. Tony Jennings Exceptional Education Institute, Co-Principal Investigator, funded, \$10,000.

Andreasen, J., **Safi, F.**, Dieker, L., & Hughes, C. (2016-2017) *QEP Assessing UCF Student's Interviewing Skills using Simulation*. University of Central Florida's Office of Quality Enhancement Plan (QEP), Co-Principal Investigator, funded \$10,000.

**Safi, F.** (2013) *Technology, Pedagogy and Content Knowledge (TPACK)*. Center for Excellence and Teaching, The College of New Jersey. Leading a multi-disciplinary campus-wide learning community, funded, \$3,000.

**Safi, F.** (2012) *Blended Learning in Mathematics*. Center for Excellence and Teaching, The College of New Jersey. Initiative to promote training for blended learning courses, funded, \$3,000.

### **Other Grant Contributions**

*Consortium for future educators: Recruiting, developing, retaining Florida educators through a research practice partnership.* (2021-2023). Butler, M. (PI), and Blanch, N. (Co-PI). University of Central Florida. \$400,000. Role: Senior Personnel and Researcher (under review)

*Teacher quality partnerships: Downtown experience. Enhancing quality in teacher preparation in mathematics through partnerships.* (2019-current). U.S. Department of Education. Little, M. (PI) and Hahs-Vaughn, D. (PI). University of Central Florida. \$3,000,000. Role: Technical Working Group in Mathematics. (funded).

*Helios Education Foundation Community Investment.* (2017-2019) Parramore Education and Innovation District (PEID). \$350,000. Role: Education Chair - Planning and Implementation Team. (funded).

College of Graduate Studies funding to promote Mathematics Education Graduate Programs at the Association of Mathematics Teacher Educators Conference hosted in Orlando. (2019). University of Central Florida. \$776.00. (funded).

**Safi, F., & Nickels, M.** (2015-2016) *Engaging Pre-service and Practicing Teachers in Interactive Technology using ActivTables*. University of Central Florida's School of Teaching, Learning and Leadership Technology Fee Projects, funded, \$32,904.

*PROFIT: Pictures represent opportunities for inspirations in technology.* (2007-2011) Lobo, N., Dixon, J. K., Shah, M., & Gresham, G.. National Science Foundation Information Technology Experiences for Students and Teachers (ITEST), funded \$1,200,000. Role: Served as mathematics content expert and lead presenter for the mathematics education workshops.

### ***Other Scholarly Activity***

#### **Professional Journal Blog (non-refereed)**

**Safi, F., \*Abassian, A.** (2017, February 23). Implement and reflect on challenging mathematical modeling tasks to engage and empower ALL students. Retrieved from <https://www.nctm.org/blog/mathmodelingtoengage/>

#### **Webinars, Media/Podcasts, and Appearances**

- **Safi, F.** (2023, March) Debate Math Podcast - Follow the Pacing Guide?. <https://open.spotify.com/episode/2CdIxx3NraGngrZD9IF401?si=c289ab766a8645e4>
- \*Desai, S., Bush, S., **Safi, F.** (2022, April). Math Ed Podcast. [https://www.podomatic.com/podcasts/mathed/episodes/2022-04-18T14\\_14\\_26-07\\_0](https://www.podomatic.com/podcasts/mathed/episodes/2022-04-18T14_14_26-07_0)

- **Safi, F.** (2022, February) Developing Mathematical Literacy through Equitable Teaching Practices. Global Math Department. <https://globalmathdepartment.org/2022/02/>
- **Safi, F.** (2021, June) - *Sense Making and Adjusting* - Teaching Math Teaching Podcast <https://www.teachingmathteachingpodcast.com/47>
- **Safi, F.** (2021, May) The Math Together Show - *How do we create math instruction that is equitable & powerful for ALL?* <https://youtu.be/OZJQxhOwDDI>
- **Safi, F.** (2020, October) Make Math Moments Podcast - *We Don't Know What We Don't Know – An Interview With Farshid Safi* <https://makemathmoments.com/episode99/>

### ***Curriculum Development***

2022-2023: Revised the structure, content and student engagement in *ESE 4033C - Critical Issues and Trends in Secondary Education* - course for all secondary education internship 2 students. Done in collaboration with Dr. Michele Regalla (UCF).

2021-2022: Revised the content, student experiences and focus of PhD course to better prepare students for comprehensive exams, and serve the broader professional needs of doctoral students in *MAE 7660 - History of Mathematics Education*.

2019-2020: Revised the content, resources and technology tools used in *MAE 4383 and MAE 6656 – Teaching Secondary Mathematics With Technology* – courses for undergraduate and graduate students.

2019-2020: Developed and modified the content, structure and materials used in *MAE 7660 – History of Mathematics Education* – course for doctoral students.

2019-2020: Revised the content and materials used in *MAE 3366 – Middle and High School Teaching* – course designed for secondary education majors in developing pedagogical content knowledge for teaching mathematics with emphasis on algebra and geometry.

2018-2019: Developed and collaborated with faculty members in CCIE to revise the content, materials and experiences used in *MAE 6641 – Problem Solving and Critical Thinking Skills* – course for graduate students in graduate programs including the Lockheed Martin K-8 Master's program.

2016-2017: Developed and collaborated with faculty members in CEDHP to revise the content and materials used in *MAE 6337 – Secondary Methods in Teaching Algebra* – course for in-service and preservice teachers.

2016-2017: Advised and collaborated with faculty members in CEDHP and College of Sciences Mathematics Department and Statistics Department to develop a sponsored program offering supplemental instruction and graduate certificate in Mathematical Sciences to a cohort of Valencia College faculty or part of the MA in Community College Leadership.

2015-2016: Developed and collaborated with faculty members in CEDHP to revise the scope and sequence as well as materials to be used in *MAE 6899 – Seminar in Teaching Mathematics* – course for in-service and preservice teachers.

2014-2015: Developed new course and curriculum materials for MAE 590 - Topics in Mathematics from an Advanced Perspective as a part of a new Master's program at The College of New Jersey.

2010-2014: Developed a course packet to be used as the text for MTT 390 – Methods of Teaching Mathematics which consisted of selected research and practitioner articles to prepare prospective middle and high school teachers at The College of New Jersey.

2010-2011: Developed algebra, geometry and trigonometry modules and materials for working with Orange County Public School teachers as a part of the National Science Foundation ITEST grant titled Pictures Represent Opportunities for Inspirations in Technology.

### ***Workshop, Institutes and Seminar Presentations***

- 1) **Safi, F.** (2023, February 6-10). *Evolving Beyond the Binary - Working together to support students, teachers, schools and communities*. Invited mathematics keynote presentation at the UnboundEd Standards Institute. Anaheim, CA
- 2) **Safi, F.** (2022, May). UCF - Summer Faculty Development Conference. Presented as part of a panel about using the Sandbox Classroom for Faculty Center for Teaching and Learning to engage and inform colleagues from throughout UCF.
- 3) **Safi, F.** (2021, December). UCF-CTM Mathematics Education Symposium
- 4) **Safi, F.** (2021, February) *Equitable Teaching Practices*. Knight-Ed Talks
- 5) Haciomeroglu, E. S., Andreasen, J., Roy, G., Tobias, J., Coskun, S., Cam, D., & **Safi, F.** (2009, February). *Explore Topics in Arithmetic, Algebra, Geometry, Pre-Calculus, and Calculus with GeoGebra, Open Source Dynamic Mathematics Software*. Having Active Participation Prepares You (HAPPY) Hour Workshop, University of Central Florida. Orlando, FL.
- 6) **Safi, F.** (2008, November). *Teaching to Depth – Implementing the Next Generation Mathematics Standards: Pre-calculus and Calculus Concepts*. Presentation at the professional development day event with Dr. Henry S. Kepner, Jr. – NCTM President - at the University of Central Florida. Orlando, FL.
- 7) **Safi, F.** (2008, November). *Teaching Pre-calculus and Calculus Concepts Emphasizing Depth and Understanding*. Professional Development workshop presentation at Math Gets Instructional Technology hosted by the Florida Council of Teachers of Mathematics (Region IX). Orlando, FL.
- 8) **Safi, F.** (2008, May). *Teaching Advanced Placement Calculus in Depth Utilizing Technology*. Workshop presentation at Orange County, Florida Professional Development Day for Advanced Placement Mathematics Teachers. Orlando, FL.



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## TEACHING

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### *University Teaching*

#### **Assigned Teaching Responsibilities**

|          |  |
|----------|--|
| MAE 2801 | Elementary School Mathematics                                  |
| MAE 3310 | Elementary Mathematics for Teaching I                          |
| MAE 3311 | Elementary Mathematics for Teaching II                         |
| MAE 3366 | Middle and High School Teaching                                |
| MAE 4339 | Teaching Algebra in the Secondary School                       |
| MAE 4360 | Mathematics Instructional Analysis (Sec Methods II)            |
| MAE 4383 | Teaching Secondary Mathematics with Technology                 |
| MAE 4634 | Programs for Teaching of Secondary Mathematics (Sec Methods I) |
| MAE 5327 | Teaching Middle School Mathematics                             |
| MAE 5336 | Current Methods in Secondary School Mathematics                |
| MAE 6318 | Current Methods in Elementary School Mathematics               |
| MAE 6337 | Teaching Algebra in the Secondary School                       |
| MAE 6641 | Problem Solving & Critical Thinking Skills                     |
| MAE 6656 | Using Technology in the Instruction of K-12 Mathematics        |
| MAE 7640 | History of Mathematics Education                               |
| IDS 6910 | Research Seminar in Mathematics and Science Education          |

#### **Independent Study, Dissertation, Thesis, Research Supervision**

|          |                                     |
|----------|-------------------------------------|
| MAE 4906 | Independent Study                   |
| MAE 4941 | Internship                          |
| MAE 5917 | Directed Research                   |
| MAE 6918 | Directed Research I                 |
| MAE 6946 | Internship                          |
| MAE 7980 | Dissertation                        |
| MAE 7945 | Internship in Mathematics Education |
| IDS 7500 | Seminar in Educational Research     |

#### **Graduate Courses Taught at the University of Central Florida**

IDS 6910 Research Seminar in Mathematics and Science Education – This course is required in the M.Ed. in K-8 Mathematics and Science program and an elective for other masters and doctoral programs in mathematics and science education. It is designed to support graduate students in mathematics and science education as they plan and/or implement research projects.

IDS 7500 Seminar in Educational Research – This course is intended for students in doctoral programs in Education or Curriculum and Instruction. It is focused on providing an examination of education related research initiatives applicable to the program of study of the graduate students in the course.

MAE 6318 Current Methods in Elementary School Mathematics – This course addresses strategies of instruction of computation and concepts of number, geometry and measurement; and algebra including careful understanding and implementation of standards for teaching mathematics. It is designed to support Master's and Doctorate students in developing their pedagogical skills.

MAE 6337 Teaching Algebra in the Secondary School – This course addresses specific techniques for developing algebra skills for pre-algebra through pre-calculus. Logical deductions, problem solving, computer application, and innovative methods are explored. It is designed to support Master's and Doctorate students in developing their pedagogical skills.

MAE 6641 Problem Solving and Critical Thinking Skills – This course addresses the development of procedures and practices necessary to implement critical thinking skills and problem solving techniques in the schools.

MAE 6656 Using Technology in the Instruction of K-12 Mathematics – This course addresses the application of computer technology to mathematics instruction including calculators, application software, simulators, and dynamic algebra and geometry environments.

MAE 7640 History of Mathematics Education – This course is required in the doctoral program. Students in the mathematics education track participate in the study of the issues and forces that have shaped mathematics education policies, classroom practices, curriculum development, instructional materials, technology and assessment of learning.

### **Undergraduate Courses Taught at the University of Central Florida**

MAE 2801 Elementary School Mathematics – This course is required for elementary education and exceptional education majors. Students explore whole number concepts and operations in base 8 and then move back to base 10 as they develop deep understanding of fraction concepts and operations. Emphasis is also placed on developing conceptual understanding of measurement and geometry.

MAE 3310 Elementary Mathematics for Teaching I – This course is required for elementary education, early childhood education and exceptional education majors. This course addresses pedagogical content knowledge for teaching whole number concepts and operations, integer concepts, geometry and algebraic reasoning.

MAE 3311 Elementary Mathematics for Teaching II – This course is required for elementary education, early childhood education and exceptional education majors. This course addresses pedagogical content knowledge for teaching rational number concepts and operations, measurement, and algebraic reasoning.

MAE 3366 Middle and High School Teaching – This course is required for mathematics education secondary majors. This course addresses pedagogical content knowledge for teaching mathematics appropriate for the middle and high school settings with an emphasis on algebra and geometry.

MAE 4383 Teaching Secondary Mathematics with Technology – This course is required for mathematics education secondary majors. This course addresses the application of educational technology to mathematics instruction including graphing calculators, apps, applets, virtual manipulatives, simulations, and mathematics software.

### **Graduate Courses Taught at Previous Institutions (TCNJ)**

MATH 590 Topics in Mathematics from an Advanced Perspective – This course is required for secondary licensure in STEM fields as a part of a Master’s program. Students explore connections across mathematical topics and how to apply them to the teaching and learning of mathematics. The focus is consistently on problem solving, reasoning, communicating mathematically and representing the ideas that should be a focus of the entire K-12 curriculum.

### **Undergraduate Courses Taught at Previous Institutions**

#### Mathematics Content Courses

|                           |  |
|---------------------------|--|
| MAT 1033                  | Intermediate Algebra                                   |
| MAC 1105                  | College Algebra  |
| MGF 1106                  | Finite Mathematics/Mathematics for Liberal Arts Majors |
| MAC 1114                  | Trigonometry   |
| MAC 1140                  | Pre-Calculus Algebra                                   |
| MAC 1147/MAT 100          | Pre-Calculus   |
| MAT 125                   | Calculus for Social Science Majors                     |
| MAC 2233                  | Business Calculus                                      |
| MAT 127/MATH 104/MAC 2311 | Calculus 1   |
| MAT 128/MATH 105          | Calculus 2   |

#### Mathematics Education Content Courses

|          |   |
|----------|---|
| MAT 105  | Mathematical Structures and Algorithms for Elementary Educators |
| MAT 114  | Patterns, Functions and Algorithms for Middle School Teachers   |
| MAT 118  | Concepts of Calculus for Middle School Teachers                 |
| MGF 1113 | Mathematics for Elementary Teachers                             |
| MATH 335 | Mathematics Content for Teachers                                |

#### Mathematics Education Methods Courses

|          |  |
|----------|--|
| MTT 390  | Methods of Teaching Mathematics                  |
| MAE 4320 | Mathematics Methods for Middle Grade Mathematics |
| MAE 4330 | Mathematics Methods for Secondary Mathematics    |

#### Mathematics Education Independent/Guided Study Courses

|         |   |
|---------|---|
| MTT 392 | Guided Study in Mathematics Education         |
| MTT 393 | Independent Research in Mathematics Education |

### Mathematics Education Internship and Capstone Courses

MTT 490      Student Teaching Mathematics  
 SED 498      Capstone for Mathematics Education Majors

### ***Independent Study, Dissertation, Thesis, Research Supervision***

#### **Doctoral Dissertation Chair**

Stefanov, A. (August 2022), Mathematics Education (*Exploring the Effects of Using Adaptive Learning Technologies on Student Learning Outcomes in Intermediate Algebra When Using Work-and-Walk-by Orchestration*), University of Central Florida.

Desai, S. (August 2022), Mathematics Education (*Impact of Ethnomodeling Explorations on Secondary Mathematics Pre-Service Teachers' Perceptions of Teaching and Learning Geometry: A Multi-Case Study*), University of Central Florida.

Abbaspour Tazehkand, S. (August 2022), Mathematics Education (*Supporting Secondary Teachers' Proof and Justification of Calculus Concepts Through the Intentional Use of Dynamic Technology*), University of Central Florida.

Abassian, A. (2018), Mathematics Education (*A case study exploring the relationship between model-eliciting activities and prospective secondary teachers' mathematical knowledge for teaching algebra topics*), University of Central Florida.

#### **Doctoral Dissertation Committee Member**

Fulton, T. (Expected Summer 2023), Mathematics Education (*How do the Life Experiences of Black Female Prospective Teachers Contribute to the Development of Their Mathematical Identity?*), University of Central Florida

Sandefur, P. (Expected Summer 2023), Curriculum & Instruction (*A Scaffolded Corequisite Curriculum For Underprepared College Algebra Students: Effects On Achievement And Motivation*), University of Central Florida.

Schmidt, A. (May 2023), Mathematics Education (*An Examination Of A Decade Of U.S. Mathematics Standards*), University of Central Florida.

Santana, P. (December 2022), Mathematics Education (*Exploring Preservice Teachers' Development of Collective Mathematics Identity Through Community Building*), University of Central Florida.

Kebreab, L. (August 2022), Mathematics Education (*Investigating the Relationship Between High School Students' Mathematical Sense of Belonging and High School and Postsecondary Course Completion*), University of Central Florida.

Edelen, D. (May 2022), Elementary Education (*Socially Constructed Ways of Being and Interacting in a First-grade Mathematics Classroom*), University of Central Florida.

Kurtz, B. (2019), *The aftermath: A culturally responsive mathematical intervention to aid students affected by natural disasters*, University of Central Florida.

Sutherland, M. (2018). *A Collective Case Study of the Influence of Feedback among Preservice Elementary Teachers: The Instructional Quality Assessment (IQA) Tool as a Resource*. University of Central Florida, Orlando, FL.

Harshman, K. (2016). *The Influence of Instruction in Base 8 on Prospective Teachers' Mathematical Knowledge for Teaching*. University of Central Florida, Orlando, FL.

### **Additional Doctoral Research Formal Mentoring**

Nadine Hinds, serving as research mentor in mathematics education including serving as chair of dissertation committee (2022-present)

Jacqueline Karastamatis, serving as research and teaching mentor in mathematics education including UCF's Summer Mentoring Fellowship for incoming doctoral students, University of Central Florida (Summer 2022)

Tandrea Fulton, served as research and teaching mentor in mathematics education including serving on comprehensive exam committee (Summer 2022)

Lybrya Kebreab, served as research mentor in mathematics education as part of UCF's Summer Mentoring Fellowship for incoming doctoral students, University of Central Florida (Summer 2019)

Siddhi Desai, served as research mentor in mathematics education as part of UCF's Summer Mentoring Fellowship for incoming doctoral students, University of Central Florida (Summer 2017)

Doctoral Dissertation Committee Member, Wilkes University, 2012-2013.

### **Honors in the Major Committee at UCF**

Kraus, I. (2016). More on Extreme Cycles. Department of Mathematics. University of Central Florida, Orlando, FL.

### **Independent Study - Research Supervision at UCF**

\*Hines, Nadine (2023) Supervised research, Summer 2023

\*Karastamatis, Jacqueline (2022) Supervised research, Summer 2022

\*Abbaspour, S. (2019, 2020) Supervised research in IDS 7500, Fall 2019-Spring 2020

\* Stefanov, A. (2020) Supervised research in IDS 7500, Spring 2020

\*Abassian, A. (2017). Supervised research in MAE 7945, Summer 2017.

\* Desai, S. (2017, 2020, 2021). Supervised research in MAE 6918, Summer 2017; Supervised research in IDS 7500, Fall 2020-Spring 2021

### **Independent Study - Research Supervision at Previous Institution (TCNJ)**

Spring 2015: Independent study with sophomore mathematics education major Siddhi Desai on “Role of Multiple Representations in Conceptual Understanding”.

Spring 2013: Independent study with senior statistics major Vianna Fagel on “Exploring Large Databases using Multiple Techniques”.

Spring 2013: Independent study with junior statistics major Sahnaz Saleem on “Raising New Research Questions through Data Analysis”.

Spring 2012: Capstone Project with senior mathematics education major Patrick Catalano on “Questioning Strategies and Classroom Discourse”.

Fall 2011: Guided study conducted with 4 mathematics education majors Elizabeth Egan, Erin Suozzo, Allison Lombardi, and Amanda Wegman on “Leveraging Technology to Teach and Learn Mathematics”.

Spring 2010: Supervised research of junior mathematics education major Glenn Kliemisch on “Role of Technology in Extending Algebraic Patterns”.

Spring 2010: Supervised research of junior mathematics education major Alex Krajunus on “Using Technology to Explore Mathematical Functions”.

### **Honors in the Major Committee at Previous Institution (TCNJ)**

Spring 2012: Honors by Contract with junior mathematics education major Megan Coburn on “Learning Disabilities, Mathematics and Technology”.

Spring 2011: Honors by Contract with junior mathematics education major Patrick Catalano on “Mathematics of Juggling”.

### ***Counseling and Advisement Activities***

Graduate – Mentor and support doctoral students in the mathematics education track of Ph.D. in Education related to teaching and research studies (UCF), 2015-Present.

Graduate – Mentor and support Lockheed Martin Academy Master’s students related to teaching and research studies (UCF), 2015-Present.

Undergraduate – Advise students in Elementary Education Program (UCF), 2016-21.

Undergraduate – Advise students in Mathematics Education Program (TCNJ), 2010-15.

### ***Supervision of Student Teachers/Interns***

- 2021-2022 Internship I students in middle/secondary mathematics education (UCF)  
Supervised 3 interns in Orange and Seminole Counties during Spring 2022.
- 2017-2018 Internship II students in middle/secondary mathematics education (UCF)  
Supervised 6 interns in Orange and Seminole Counties during Spring 2018.
- 2009–2015 Supervised internship I and internship II students in middle/secondary mathematics education (TCNJ).

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## **LEADERSHIP AND SERVICE TO THE PROFESSION**

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### ***International and National***

#### **Association of Mathematics Teacher Educators (AMTE)**

- AMTE, Board Member at Large, 2021-2023.
- Board Liaison to Professional Learning Division, 2022
- Board Liaison to Technology Committee, 2022
- Board Liaison to Annual Conference Committee, 2022
- Board Liaison to Publications Division, 2021
- Task Force Member, 2020 AMTE National Conference Opening Session Focusing on Equity and Social Justice in Teacher Education, 2019-2020
- Finalist, AMTE Board Member at Large, 2020-2022
- Co-Associate Vice-President for Local Arrangements (Registration), 2019 AMTE Annual Conference, Orlando, FL, February 2019
- Conference Program Chair, 2018 AMTE Annual Conference, Houston, TX, February 2018
- Task Force Member, 2018 AMTE Task Force Focusing on Equity and Social Justice in Mathematics Teacher Education, July 2017
- Associate Vice-President for Annual Conference, 2017-2018
- Assistant Chair, Program Committee, 2016-2017
- Member, Annual Conference Program Committee, 2014-2017

### **National Council of Teachers of Mathematics (NCTM)**

- Co-Editor, *For the Love of Mathematics* Department, National Council of Teachers of Mathematics (NCTM) *Mathematics Teacher: Learning and Teaching PK-12 Journal*, 2021-2023
- Program Committee Member, National Council of Teachers of Mathematics (NCTM) Regional Conference, Kansas City, 2017-2018
- Member, National Council of Teachers of Mathematics (NCTM) Committee for Review of Association of Mathematics Teacher Educators (AMTE) Standards for Preparing Teachers of Mathematics, 2016-2017
  
- Co-Founder and Organizer of Iranian Diaspora Education Group, 2020-Present
- Chair, Technology Task Force for the National Science Foundation STaR (Service, Teaching and Research) Program, 2010-2011.

### ***State***

- Board Member, Florida Council of Teachers of Mathematics, 2021-2022
- Secretary, NJ Association of Mathematics Teacher Educators (NJAMTE), 2013-2015.
- Executive Board Member, Association of Math Teachers of New Jersey (AMTNJ), 2013-2014.
- Four-Year College Representative, NJ Association of Mathematics Teacher Educators (NJAMTE), 2011-2013

### ***Local and PK-12***

- Partner in Professional Development, Evans Elementary School (Grades K-5), Seminole County Schools, 2023-present
- Facilitator, Co-taught lessons at Evans Elementary School (Grade 1), Seminole County Schools, February 2020
- Facilitator, Taught lessons at Oviedo High School (Grades 10-12), Seminole County Schools, April 2019
- Facilitator, Taught lessons at Partin Elementary School (Grade 4), Seminole County Schools, November 2018
- Facilitator, Co-taught lessons at Evans Elementary School (Grade K), Seminole County Schools, February 2018
- Presenter, Workshops for Partin Elementary School (Grade 3), Seminole County Schools, Fall 2017
- Facilitator, Co-taught lessons at Pond Road Middle School (Grade 6), Robbinsville, NJ, June 2017
- Presenter, Workshop for Partin Elementary School (Grade 2), Seminole County Schools, May 2017
- Facilitator, Taught lessons at Lake Brantley High School (Grade 10), Seminole County Schools, May 2017



- Facilitator, Taught lessons with district math supervisor at Charles Rushe Middle School (Grade 8), Pasco County School District, May 2017
- Presenter and Facilitator, First Parents' Night for Partin Elementary School (K-5), Seminole County Schools, October 2016
- Presenter, Workshop for Evans Elementary School (3-5), Seminole County Public Schools, March 2016
- Presenter, Workshop for Evans Elementary School (K-2), Seminole County Public Schools, March 2016
- Volunteer, Lawton Chiles Middle School, Seminole County Public Schools, 2015-Present
- Volunteer and workshop facilitator, Evans Elementary School, Seminole County Public Schools, 2015-Present
- Volunteer and workshop facilitator, The Goddard School, Ewing School District (NJ), 2014-2015
- Volunteer and workshop facilitator, Stony Brook Elementary School, Hopewell Valley School District (NJ), 2010-2015

### ***University/College***

- Committee Member, CCIE International Committee, 2018-Present
- Committee Member, University (UCF) Master Planning Committee, 2018-2019
- Committee Member, CCIE Student Issues Committee, 2015-Present
- Committee Member, CEDHP Graduate Curriculum & Standards Committee (STLL Alt), 2016-2019
- Facilitator, CEDHP Transfer Orientation, August 2017
- Evaluator, UCF Graduate Research Showcase, 2016-2017
- Facilitator, CEDHP Graduate School Open House, 2015-2017
- Committee Vice-Chair, Liberal Arts Planning Council (TCNJ), 2014-2015
- Organizer, Lecture Series on Social Justice (TCNJ), 2012-2013
- Committee Member, School of Science Curriculum Task Force Committee (TCNJ), 2011-2012
- Committee Vice-Chair, Cultural & Intellectual Committee Program Council (TCNJ), 2011-2014
- Committee Member, All-College Academic Integrity Board (TCNJ), 2011-2014
- Presenter, Academic Integrity - Freshman Seminar Program classes (TCNJ), 2010-2011

## ***Department/School***

### **University of Central Florida**

- Member, School of Teacher Education (STE) Internal Advisory Council, 2023-Present
- Leader and Organizer, School of Teacher Education (STE) CommuniTea Faculty & Staff Academic Community Gatherings, 2023-Present
- Search Committee Member, School of Teacher Education (STE) Director Search Committee 2021-2022
- Committee Member, School of Teacher Education Promotion & Tenure AESP Revision Committee (Fall 2021)
- Council Member, School of Teacher Education (STE) Faculty & Staff Advisory Council, 2020-2023
- Co-Advisor, UCF-Council of Teachers of Mathematics Student Organization, 2020-Present
- Member, Lockheed Martin Academy Faculty, School of Teacher Education, 2016-Present
- Member, Ph.D. in Mathematics Education Interview Committee, 2016-Present
- Committee Member, Search Committee for K-12 STEM Position, 2016-2017
- Member, Elementary Education Council, 2015-Present
- Member, Elementary Education, Subject Area Committee, 2015-2019

### **The College of New Jersey (TCNJ)**

- Coordinator, Technology in Teaching & Learning of Mathematics (TCNJ), 2013-2014
- Committee Member, Curriculum Committee (TCNJ), 2013-2015
- Committee Member, Teacher Education Committee (TCNJ), 2013-2015
- Committee Chair, Mathematics Education Committee (TCNJ), 2011-2013
- Committee Member, Calculus Committee (TCNJ), 2012-2013
- Liaison, Academic Integrity (TCNJ), 2012-2013
- Presenter, Instructional Technology Sessions (TCNJ), 2012-2013
- Committee Member, Technology Task Force (TCNJ), 2011-2012
- Committee Member, Committee on Departmental Honors (TCNJ), 2011-2012
- Presenter, Lions Day Open House Recruiting Event (TCNJ), 2012
- Facilitator, Summer Reading Program Discussions in FSP courses (TCNJ), 2012
- Presenter, Accepted Students Day Event (TCNJ), 2012
- Committee Member, Calculus A Planning & Organizational Meetings (TCNJ), 2011-2012
- Volunteer, Multicultural Scholar's Reception (TCNJ), 2011
- Volunteer, Freshman Orientation Week (TCNJ), 2010-2011

### **Editorship, State Mathematics Education Journals**

- Co-Editor, FCTM Dimension Journal, 2021
- Editor-in-Chief, The New Jersey Mathematics Teacher Journal, 2013-2015.

### **Additional National Service as Grant, Manuscript, and Conference Proposal Reviewer**

- Manuscript Reviewer, Contemporary Issues in Technology and Teacher Education (CITE-Math), 2021-2022
- Proposal Reviewer, *Annual Conference of the Association of Mathematics Teacher Educators (AMTE)*, 2020-2022
- Manuscript Reviewer, *Investigations in Mathematics Learning*, 2018-present
- Proposal Reviewer, *National Council of Teachers of Mathematics (NCTM) 2018 Research Conference*, August-September 2017
- Grant Proposal Review, *National Science Foundation STEM+C*, Review Panel Member, May-June 2017
- Manuscript Reviewer, *Teaching Children Mathematics*, National Council of Teachers of Mathematics, 2016-present
- Manuscript Reviewer, *Mathematics Teaching in the Middle School*, National Council of Teachers of Mathematics, 2015-present
- Proposal Reviewer, *Psychology of Mathematics Education-North American Chapter (PME-NA) Conference* 2012, 2014-present
- Proposal Reviewer, *Annual Conference of the Association of Mathematics Teacher Educators (AMTE)*, 2010-2018
- Manuscript Reviewer, *Mathematics Teacher*, National Council of Teachers of Mathematics, 2011-2013
- Grant Proposal Reviewer, *National Science Foundation* Proposal Reviewer, 2012

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### **AWARDS AND HONORS**

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- **Recipient of University Award for Faculty Excellence in Mentoring Doctoral Students, 2022-2023**
- Finalist for National Council of Teachers of Mathematics (NCTM) Linking Research to Practice Outstanding Publication Award for article in *Mathematics Teaching in the Middle School: Mathematics Discussions: Expectations Matter*, 2018
- UCF Education Student College Council, Teacher Appreciation, 2016-2017
- Selected as Literacy Fellow, UCF Morgridge International Reading Center, 2016-2017
- **Distinguished Teacher Award, TCNJ Department of Mathematics & Statistics, 2015**
- TCNJ Sabbatical Research Award, 2015
- TCNJ Award in Support for Scholarly Activities (SOSA), 2012, 2013-2015
- Selected as Fellow for NSF-funded program titled Preparing to Teach Mathematics with Technology (PTMT) at North Carolina State University, 2010-2011

- **Selected as a STaR Fellow in Mathematics Education, 2010**
  - Supporting mathematics education early career faculty in Service, Teaching, and Research (STaR): A National Science Foundation Grant to support future leaders in the field
- UCF Outstanding Graduate Teaching Assistant Award, 2008-2009
- UCF Dean's Fellowship Award, 2007-2008, 2008-2009
- Oviedo High School, Contributions to Improvement of Teaching Award, 2008, 2009
- Harcourt Mathematics Scholar Award, 2007-2008
- UCF Provost's Fellowship Award, 2006-2007
- UF Certificate of Excellence in Teaching, 2001
- **UF Outstanding and Innovating Teaching Van der Werff Award, 1999**
  - **University of Florida Graduate School campus-wide teaching award**
- Dedication in Teaching Award, UF Minority Recruitment and Retention Council, 1998

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### PROFESSIONAL AFFILIATIONS

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- Association of Mathematics Teacher Educators (AMTE), 2007-Present
- Florida Council of Teachers of Mathematics (FCTM), 2007-2009, 2015-Present
- Mathematics Association of America (MAA), 2010-Present
- National Council of Teachers of Mathematics (NCTM), 2007-Present
- National Council of Supervisors of Mathematics (NCSM), 2015-Present
- North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), 2008-Present
- Association of Mathematics Teacher Educators of New Jersey (AMTNJ), 2010-2015
- International Group for the Psychology of Mathematics Education (PME), 2014
- New Jersey Association of Mathematics Teacher Educators (NJAMTE), 2010-2015
- Florida Association of Teacher Educators (FATE), 2007-2009