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College of Education
Department of Teaching and Learning
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# **EDUCATION**

2008-2012

University of Missouri, Columbia, Missouri
Doctor of Philosophy in Oniculum and Instruction –
Specialization in Mathemati39 Tw .ation
Indiana nive]TJ 117.2 0 TD .0003 Tc -.0016 c(h).rsity , Blooming ton, Indiana

2018- Present Undergraduate B.S. and B.A. Ades 6-12 Program Coordinator

and Mathematics Education M.A.T and M.Ed Program

Coordinator

**Secondary Mathematics** 

College of Education, University of South Florida

2013- Present Coordinator for Veropmental Mathematics Courses

College of Education and College of Arts and Science, University

of South Florida

2012- Present Assistant Professor

**Secondary Mathematics** 

College of Education, University of South Florida

2010 - 2012 Graduate Teaching Assistant

Mathematics Department

University of Missouri, Columbia, Missouri

2008 -2012 Graduate Research Assistant

**Mathematics Education Department** 

University of Missouri, Columbia, Missouri

2002-2004 & 2006-2008 Senior Highham Mathematics Teachers

C.R. Walker Senior High School

Ministry of Education and Technical and Vocational Training,

Nassau, Bahamas

#### PROGRAM OF RESEARCH

- x Examining the official and operional mathematics curriculum and curriculum materials and contributing factors
  - o Developing reasoning and prostills in mathematics
  - o Attending to justice, equit diversity, and inclusion secondary mathematics
  - o Technology integration in sendary mathematics classroom
  - Using co-planning and co-teaching to promote student success

HONORS (FELLOWSHIPS, AWARDS, and SCHOLARSHIPS)

**Fellowships** 

November 2021 Association of Americ And vancement of Science (AAAS) Fellow

2021 AAAS Fellowhttps://www.aaas.org/fellows

2008-2012	Center foretlStudy of MathematiscCurriculum (CSMC) Fellowship Award, which provided a four-year graduate assistantship with tuition waiver at the University of Missouri.
2004-2006	Organization of Arican States Fellowship Award, which paid for tuition, travel and living repenses while I attended Indiana University
Awards August 5, 2022	Kappa Delta Pi -tennational Honor Society 2022 Chapter Leader Award Reigint for Regional Chapter Counselor
May 4, 2022	University of South Florida – College of Education Excellence in Undergraduate Education Award
April 14, 2022	University of South Mida -Office of Multicultural Affairs I Heart Diversity Award Recipient
April 12, 2022	University of South Fliodra - Office of Diversity, Equity and

- Matthews, L., Jessup, N. &ears, R (2021). "Looking for 'Us': Power Reimagined in Mathematics Learning for Blackommunities in the Pandem Educational Studies in Mathematics <a href="https://link.springer.com/content/pdf/10.1007/s10649-021-10106-4.pdf">https://link.springer.com/content/pdf/10.1007/s10649-021-10106-4.pdf</a>
- Yilmaz, Y., Gulbagci, HSears, R., Nielsen, S. (2021). Are We All in This Together?:

  Mathematics Teachers' Pesspive on Equity in Remotestruction During Pandemic.

  Educational Studies in Mathematids 25

https://link.springer.com/tticle/10.1007/s10649-021-10060-1 Sears, R.,

- Hopf, F.Sears, R, Torres, A., & Maher, M. (Februar 2015). SMART lab: Opening doors to success in college algeb MathAMATYC Educato 6(2), 9-14.
- Sears, R.,& Chávez, Ó. (2014). Opportunities to engagite proof: The nature of proof tasks in two geometry textbooks and its fluence on enacted lesso 250M, 46(5), 767-780.
- Grouws, D., Tarr, J. E., Chávez, **G**ears, R, Soria, V., & Taylan, R. D. (2013). Curriculum and implementation effects orghi-school students' mathetics learning content orgization of two typesJournal for Research in Mathematics Education 44(2), 416-463.

### Refereed Manuscripts Under Review

Sears, R., Castro-Minnehan, C., Oloff-Lewis, J., Jur@larke, P., Biagetti, S., Grady, M., Cayton, C. (Under Review) Alignment of Condary Mathematics Teacher Candidates' Perceptions of Co-teaching During Clinital periences with Dimensions of Equity Castro-Minnehan, CSears, R.,

- An, T., Boyce, S., Cohen, S., Escuadro, H., H., H., Krupa, E., Milewski, A., Miller, N., Pyzdrowski, L. J., Sears, R\*, Szydlik, S., & Vestal (Accepted 2022). (Toward) Essential student learning objectives forcheing geometry to pre-service secondary teachers. AMTE Professional Bolieries, Volume 5 entitled reflection on Past, Present and Future: Paving the Way for the Ure of Mathematics Teacher Education \* Names listed in alphabetical order. All authors contributed equally.
- Sears, R.,Brosnan, P., Castro-Minnehan,, Cunor-Clarke, P., & Stone, (2022). Collaborating Teachers and Preservice Teachers Attention that Elements of the Apprenticeship Model for Learning During Clinical Experiences Drew Polly (Ed.) Preparing Effective Teachers: Advances in Clinical Practice. IAP
- Jessup, N.Şears, R.,Matthews, L. (2020).Reengineering hope of an inclusive mathematics education In K. Varner, S. Bickmore, D. Hys., PG Schrader, D. Carlson, and D. Anagnostopoulos (Eds). The corona chronid essensive mathematics in uncertain times. New York: Diopress.
- Males, L., Sears, R., & Lawler, B. (2020) Equity and justice in the preparation of secondary mathematics teachers in The Association of Mathematics Teacher & Licators (AMTE) Professional edited book series, W. G. Marie B. R. Lawler, A. E. Lischka, & W.M. Smith (Eds) Mathematics Teacher Education Paætship The Power of a Networked Improvement Community to Transform Mathematics Teacher Preparation Charlotte, NC: Information Age Publications.
- Strutchens, M. EŞears, R.& Zelkowski (2020).Improving Clinical Experiences for Secondary Mathematics Teacher CandidatesThe Association of Mathematics Teacher Educators (AMTE) Professional edited k series, W. G. Martin, B. R. Lawler, A. E. Lischka, &W.M. Smith (Eds)Mathematics Teacher Education Partnership The Power of a Networked Improvement Community to Transform Secondary Mathematics Teacher Preparation. Charlotte, NC: Information Age Publications.
- Strutchens, M.E., Erickson, DSears, R., Zelkowski, J. (2020). Clinical Experiences for Secondary Mathematics Teacher Candidates The Association of Mathematics Teacher Educators (AMTE) Professional edited k series, W. G. Martin, B. R. Lawler, A. E. Lischka, &W.M. Smith (Eds) Mathematics Teacher Education Partnership The Power of a Networked Improvement Community to Transform Secondary Mathematics Teacher Preparation. Charlotte, NC: Information Age Publications.
- Grady, M., Sears, R, Stone, J., & Biagetti, S. (2020) sing co-planning and co-teaching strategies to transform secondanathematics clinical expiences. In The Association of Mathematics Teacher Educators (AMTE) pressional edited book series, W. G. Martin, B. R. Lawler, A. E. Lischka, &W.M. Smith (Eds) lathematics Teacher Education Partnership The Power of a Netwed Improvement Committy to Transform Secondary Mathematics Teacher Preparation Charlotte, NC: Information Age Publications.
- Strutchens, M. E.Sears, R., Whitfield, J., Biagetti, S., Brosnan, P., Oloff-Lewis, J., ... & Conway IV, B. M. (2019). Implementation of Paired Placement and Co-

- science to transform clinical expenices with co-teaching strategiAsınual perspectives of mathematics education (APME) 2017/effective and collabotiave processes to improve mathematics teachin(pp. 265-273). NCTM: Reston, VA.
- Sears,R., Karadeniz, I., Butler, K., & Pettey, (2015). Are standards fornathematical practice overlooked in geometry textbooks' chapter tests@ual perspectives in mathematics education (APME) 2015: Assessmtenenhance learning and teachi(pp. 75-97). NCTM: Reston, VA.

# Technical Reports

Sears, R.,Gallardo, G., Reese, G. D., Dutton, T., Rogielt, J., McHale, J. P., Akiwumi, F., Edmond, J., Bradham-Cousar, M., Blackshea & Thompson-Dorsey, D. (2021). Examination of Historical and Modern-Day Impasof Structural Rasim on the Lives of Black People in the City of St. Peterson, UFlorida. [Commissioned and Funded Study by the City of St. Petersburg, Florida]SF St. Petersburg campus Faculty Publications 4117. https://digitalcommons.fusedu/fac\_publications/4117/

Lubiento, J., &Sears, R.

- Boyce, S., Ion, M., Mcleod, K., Pyzdrowski, Sears, R., St. Goar, J. (2021, May 7). Best-Laid Co-Plans for a Lesson on Creating at Meanatical Definition. Blog for American Mathematical Societyttps://blogs.ams.org/matheducation/2021/05/06/best-laid-co-plansfor-a-lesson-on-creating-mathematical-definition/
- Sears, R.& Pinder, C. (2021, April 15). 5 Strategi to Use Assessmt PurposefullyKappa Delta PiBlog. Retrieved from <a href="https://blog.kdp.org/2021/04/15/5-strategies-to-use-assessment-purposefully/">https://blog.kdp.org/2021/04/15/5-strategies-to-use-assessment-purposefully/</a>
- Sears, R.,Matthews, L., & Jessup, N. (2021, Februark)eimagining STEM Education Pipeline for Teachers of ColorBlog for American Association for Advancement of Science (AAAS) Advancing Research and Innovationtline STEM Education (ARISE) of Preservice Teachers in High-Needs School Districts://aaas-arise.org/2021/02/16/reimacing-the-stem-education-pipee-for-teachers-of-color/
- Sabella, L.Sears, R.,& Castro-Minnehan (January **20**21). Interrupted Student-Teaching Experiences: 6 Tips to Get to the Fin**ish**e. Kappa Delta Pi Blog. Retrieved from <a href="https://blog.kdp.org/tag/online-teaching/">https://blog.kdp.org/tag/online-teaching/</a>
- Pinder, C., Sears, R., & Butler, K. (2017). Workspace: An online assessment that allows intermediate algebra students to show their work.

- Sears, R., Weiland, T., Lawler, B. R. (2019, June 23-26) juity and Social Justice Working Group. Mathematics Teacher Educator Parship, MTEP 2019, St. Louis, MO.
- Strutchens, M.Şears, R., Zelkowski, J., Edwards, B., Conway, B., & Mangram, C. (2019, June 23-26). Clinical ExperiencesMathematics Teacher EduoatPartnership, MTEP 2019, St. Louis, MO.
- Sears, R., Grady, M., Cayton, C., Bronson, P., Ahthas., Castro-Minnehan, C., (2018, June 25–27). Implications of a Co-Planning and Co-Teaching Professional Development Training for Preservice Teacheand Collaborating Teacher Mathematics Teacher Educator Partnership, MTEP 2018, Denver, CO.
- Cayton, C., Grady, M., Preston, R. Sears, R.,Oloff-Lewis, J., & Brosnan, P. (2017, October 5-8). Improving preservice secondary meathatics clinical experiences through coplanning and co-teaching. Working group seass at the Interactional Group for the Psychology of Mathematics Education (PME) Lerth American Chapter. Indianapolis, IN.
- Ellis, M., Strutchens, M& Sears, R (2017, June 26-27). Focusing on Equity with the MCOP2 indicators. Proceedings in the APLU Mathematics Teacher Education Partne **Islaip** Orleans, LA.
- Brosnan, P., &Sears, R (2017, June 27-28). Co-planning and co-teaching from preservice teachers to in-service teachers of the APLU- Mathematics Teacher Education Partnership MeetingNew Orleans, LA.
- Junor-Clarke, P., &Sears, R.(2017, June 27-28). Transformgi internship thinking: Using improvement science to enhance teaching for student teaching for student teaching of the APLU- Mathematics Teacher Edution Partnership MeetingNew Orleans, LA.
- Sears, R.,Potter, R., Meisels, G., & Raley, (2017, June 25). "STEER"ing the Systematic Approach to Improve Learning: A Hillscrough Community College- University of South Florida Partnership roceeding of the Accelerating Systemic Change in STEM Higher Education (ASCN)Science and Mathematic scher Imperative (SMTI) Annual Meeting New Orleans, LA
- Sears, R.,Lewis, J., Raley, V., Meisels, G., & Potter, (2017, June 23). On the road to culture change: Making evidence based theing the norm in STEM at a research 1 university. [Poster]. Proceedings of the APLU Scienced Mathematics Teacher Imperative (SMTI) Annual Meeting New Orleans, LA.
- Sears, R.,Brosnan, P., Oloff-Lewis, J., Gainsburgo & J., Biagetti, S., Cayton, C., Grady, M., Spencer, C., Riggs, L., & Junor-Clarke, P. (2017, January 3-7). Co-teaching mathematics: A shift in paradigm to promote student suc esceedings of the 15th Annual Hawaii International Conference on Educational Hawaii International Conference on Educational Conference on Education Conference o
- Sears, R, Butler, K., Hopf, F., & Skrzypek. L. (217, January 3-7). Transforming secondary mathematics curriculum to promoteter disciplinary STEM concept Proceedings of the 15th Annua Hawaii International Conference in Educational U. H.
- Brosnan, P., &Sears, R.(2016, June 26-28). Using improvement science to increase mathematical learning througho-planning and co-teaching roceedings of the APLU-Mathematics Teacher Edution Partnership Meeting Atlanta, GA.
- Chavez, O., &Sears, R.(2016, October 20-22). Formal aimformal proofs in secondary geometryProceedings of the School Science and Mathematics Association Annual MeetingPhoenix, AZ.

- liams, I., Sears, R., Ellis, M., & Strutchens, M. (2016, Ju26-28). A deeper dive into plan-dostudy-act cycles and measur@soceedings of the APLU- Mathematics Teacher Education Partnership MeetingAtlanta, GA.
- Sears, R., Secada, W., Cohen, M., & Roderick, (2016, June 20-22). Preparing current and prospective teachers for STEM teaching tearning opportunities of the future: A twenty-year projection Proceedings of the AAAS Worksi Group Meeting on Identifying a Research Agenda for Preservice STEM Teacher Educations bington, D.C.
- Strutchens, M., Iiams, M., Sears, R.(2016, June 26 -28). Clinicakperiences research action cluster: MTEP conference reporteroceedings of the APLU Mathematics Teacher Education Partnership Meetinghtlanta, GA.
- Butler, K., & Sears. R.(2015, February 26-28) echnology in intermedia algebra: Effects on anxiety and opportunity to learn roceedings of the Research Council for Mathematics Learning (RCML). Las Vegas, NV.
- Krajcevski, M., & Sears, R (2015, October, 23-24). Pre-sææviteachers' misconceptions about visual representations aftitude, median and anglesector of a trianglesall Western Sectional Meeting of Americal Mathematical Society (AMSF) ullerton, CA.
- Sears, R, & Kersaint, G. (2014, June 4). The tstormation of middle school STEM teacher preparation program: A collaborative desit@oster].APLU Science and Mathematics Teacher ImperativeSMTI) National ConferenceMilwaukee, WI.
- Sears, R, & Chavez, O. (2013, April 27-May 1). Compative analysis of task features and levels of cognitive demand of proofs in geometry textbooksceedings of the American Educational Research Associat(AERA) Annual MeetingSan Francisco, CA.
- Sears, R. (2011, October 20-23). An examination profeservice mathematics teachers' proof schemes Proceedings of the lorth American Chapter of the International Group for the Psychology of Matematics Education Reno, NV.
- Grouws, D., Tarr, J\$ears, R.,& Ross, D. (2010, January 7-11). Mathematics teachers' use of instructional time and relationships toxtleook organization and class period format. [Poster].Proceedings of the Hawaii International Conference for Educationally, HI.
- McNaught, M., Tarr, J., &Sears, R (2010, April 29-May 5). Coreptualizing and measuring "fidelity of implementation" of secondamnathematics textbooks: Results of a 3-year study of curriculum implementation froceedings of the American Educational Research Association (AERA) Annual Meeting Denver, CO.
- Sears, R., Taylan, R. D., & Tarr, J. (2010, Octobe

Sears, R.(2012, August 16). BGCSE Natidn Average: An Illusion. The Freeport News. Nassau, Bahamas.

Sears, R.(2012, August 28). BGCSE Natidn Average: An Illusion. The Tribune. Nassau, Bahamas.

#### **GRANT WORK**

Funded

Title: Challenging Anti-Black Racisrim Civil and Environmental

Engineering Curriculum

Date: June 2022- July 2026

Proposed Budget: \$1,500,000

Source of Funding: National Science Foundation 14#14)

Senior Leadership Team: Maya Trotz (Principal Investigators), Christian Wellso-Principal

Investigator) (co-Principal Investigator) Katherine A. Alfredo (co-Principal Investigator) Ruthmae Sea (so-Principal Investigator),

and Amy Stuar(co-Principal Investigator).

Role: Co-Principal Investigator

civil and environmentængineering curriculum

Title: Examination of historical modern-day impact of structural

racism on the lives of Black peoplethe City of St. Petersburg,

Florida

Date: February 2021- December 2021

Funded Budget: \$50,000

Source of Funding: City of St. Petersburg

Senior Leadership Team: Rutae Sears (Principal Investigator) hannes Reichgelt (co-

Principal Investigator), James McHale (co-Principal Investigator), Gwendolyn Reece (co-Principal Investigator), Gypsy Gallardo (co-Principal Investigator), Tim Dutton (co-Principal Investigator), Fenda Akiwumi (co-Principahwestigator), Dana Thompson -

Dorsey (co-Principal Investigator).

Role: Principal Investigator

Brief Project Description Examine both thetbrical and modern-day impact that structural

racism has had on the lives of all people in the City of St.

Petersburg, Floridah(tps://www.usf.edu/arts-

sciences/institutes/black-lifet/ructural-racism/index.aspxThis

work was featured in various news outlets

(https://www.usf.edu/arts-sciences/institutes/black-life/structural-racism/news-archive.asp)xinclusive of: The Weekly Challenger, The Tampa Bay Times, WUSF Right Media, ABC Action News, CW 44, The Oracle, Florida Politic and The Power Broker.

Title: NASA STEM Education Constation - Network of Evidence-

Based STEM Educator Fessional Development

Date: November 2014 - August 2016

Funded Budget: \$200,000

Source of Funding: Sub-contract from Texatate University's NASA funded project

Senior Leadership Team: EugelMamvoridi-Ivanovic and Ruthmae Sears

Role: co-Principal Investigator

Brief Project Description: Facilitate of tessional developmetraining using NASA

curriculum resources

Title: The CodebreakHERS: A GenC

Date: 2019

Proposed Funding Budget: \$3,999,616

Senior Leadership Team: Dr. Ruthmae Sears Morhael Cross, Dr. Anna Pyayt, Dr. Kevin

Yee, Dr. Robert Potter

Role: Principal Investigator

Brief Project Description: The project goaltosincrease participitate and success of Black

and Latinx undergraduate stude ints TEM disciplines through a convergence support effortnong academic, student affairs, and student organization units, aforcused development of their

digital literacy skills.

Title: A Learning Assistant Schola Program - Supporting Students of

Color Success in STEM

Date: 2019

Proposed Funding Budget: \$599, 370

Senior Leadership Team: Dr. Ruthmae Sears Morhael Cross, Dr. Anna Pyayt, Dr. Kevin

Yee, Dr. Robert Potter

Role: Principal Investigator

Brief Project Description: The goal of the soposed effort is texpand the number of

Students of Color (i.e. ethnand racial minority groups) who

serve as learning assistants; the priencreasing their academic roles at the collegiate level, and flustr supporting alstudents achieving

success in introductory TSM courses and beyond.

Title: A Professional Development to Foster Inclusive Excellence and

Address Anti-Blackness within STEM Disciplines

Date: 2020 Proposed Funding Budget: \$25,000

Senior Leadership Team: Dr. Ruthmae SearsRobert Potter, DrGerry Meisels, Dr.

Sylvia Thomas, Ms. Caree Pinder, Ms. Queshonda Kudaisi, and

Mr. Alberto Danny Camacho

Role: Principal Investigator

Brief Project Description: This proposative cates for inclusive excellence and addresses

anti-Blackness within STEM disciples at the University of South Florida (USF) and Hillsborough Community College (HCC).

Involvement in Grant Related Activities as Consultant, Working Group Member, Key Personnel, etc.

Title: The modernization **D**igital Information Technology

Date: 2022-2023 Funded Budget: \$ 625,196 Source of Funding: Florida DepartmentEducation and Cyber Florida. This

subaward is issued pursuan**the** grant, "CRRSA GEER II - Cybersecurity and IT Pathways Expansion Grant," 291-1231C-

2C00

Senior Leadership Team: Ron Sanso(PI) and Clinton Daniel (co-PI)

Brief Project Description: The STEER project supports fatiguin the implementation of

evidence-based teaching stergies by providing funding for professional development analysporting students in the STEM career transition from community olleges. The link to the STEER website ishttps://www.usf.edu/atle/eser/about-us/index.aspx

Additionally, highlights of STEERaccomplishments over the years

can be viewed online at

https://www.youtube.com/atch?v=F9MeVjb3ZKM

Title: Helios STEM Middle School Residency Program

Source of Funding: Helios Foundation
Date: August 2012-2016
Role: Key personnel

Title: Comparing Options in Secondary Mathematics:

Investigating Curriculum (COSMIC)

Date: January 2009 - December 2011 Source of Funding: National Science Foundation

Senior Leadership Team: Dr. Douglas Group. James Tarr, and Dr. Oscar Chavez

Role: Graduate Research Assistant

Title: Researching Science and Mathematics Teacher Learning in

Alternative Certification Model (RESMAR2T)

Date: September 2008- May 2009
Source of Funding: National Science Foundation

Senior Leadership Team: Dr. Sandra Mder. John Lannin, Dr. Kathryn Chval

Role: Graduate Research Assistant

**FUNDED CONTRACTS** 

Title: Making Real World MathematicConnections in Middle and Upper

High School Mathematics Curricum at Tampa Preparatory

School.

Date: April – June, 2019

Funded Budget: \$2,000

Source of Funding: TamapPreparatory School

Senior Leadership Team: Ruthmae Seasanghoon Park, and Milferajcevski.

Role: Principal Investigator

Brief Project Description: Review Sool mathematics curriculum and make

recommendations to amplify thelevance and practicality of

mathematics, and thetegration of technology.

- Sears, R (2021, March 5)Education Researchers Roundtablenowledgehook. <a href="https://app.knowledgehook.com/app/lmlaeaders/Video/ec71286c-cb8c-eb11-9752-0050568c42b6">https://app.knowledgehook.com/app/lmlaeaders/Video/ec71286c-cb8c-eb11-9752-0050568c42b6</a>
- Castro-Mindhari?, Cseatrs, VR., & Lou, Y. (2021), April 10). Virtual K-12 School Field Experiences: A Review of the Literatur Presentation at the American Educational Research Association for its invision K (virtually).
- Sears. R.(2021, April 10). Equity Topics in Mathematics Education Chair of Session for the American Educational Research Association for Division C (virtually).
- Sears, R.(2021, April 11).Confronting Systemic Inequities and Disparities Using Case-Based Instruction in Mathematics Teacher Preparation of Session for the American Educational Research Association SIG-Restein mathematics Education (virtually)

#### **National Presentations**

Sears, R. (2022, August 25). Roundtable discusaicilitator for "Access and equity for diverse learners: Closing achievement opportunity gaps in rthaematics". National Council of Supervisors of Mathematics 2022e-Conference event. Virtual.

American Educvein Ma7 Associable.

Knowle

- Castro-Minnehan, C., Sears, R.( 2020, October, 23) Preservice teacher perspectives of their collaborating teachers' resentation at the National Conference on Co-Teaching. Virtual.
- Sears, R., Potter, R., Meisels, G. (2020). "STETER Our Way To Inclusive Excellence! NSF STEM Diversity and Inclusion Vide Exhibition (Dive) Challenge 2020 <a href="https://www.youtube.com/watch?v=yci-wSkGkQQ">https://www.youtube.com/watch?v=yci-wSkGkQQ</a>
- Sears, R., Potter, R., Meisels, G., & Schuler, (2020). Using Professional Development to Support Equitable Learning Opportunities in STEM Lab Settings. https://www.youtube.com/walh?v=udYsXLg2j0w&t=17s
- Strutchens, M.E., Sears, R., Zelkowski, J., Mangram, C., Conway, B. (2020, February 7). Collaborating to Improve Clinical Experiores for Secondary Mathematics Teacher Candidates Presentation at the Sociation of Mathematics Teacher Educators Conference. Phoenix, AZ.
- Sears, R., Dupree, L., & Castro-Minnehan. (2020, b) Feerry 6). Secondary athematics teacher candidates' perspectives out strategies that campport equitable learning opportunities. Presentation at the Asation of Mathematics Teacher Educators Conference. Phoenix, AZ.
- Sears, R., Pinder, C., & Castro-Minnehan, C. (2020,riApt-4). Two heads are better than one: Using co-teaching to support equity in **sed** ary mathematics. Presentation at the National Council of Teachers of Mathematics mual meeting (centerall). Chicago, IL. [Canceled due to COVID-19]
- Sears, R., Potter, R., Meisels, G., &chuler, K. (2019, November & Jsing Professional Development to Support STEM Doratory Teaching Assistant Resentation at AAC&U Transforming STEM Higher Education. Chicago, IL.
- Sears, R.& Potter, R. (2019, May 30-June **S**pupporting STEM Lab Teaching Assistants Enactment of an Effective Optional Curriculum via Year-Long Professional Development Initiative oster at Network **S**TEM Education Center. Omaha, NE.
- Sears, R., Potter, R., Meisels, G. (2019, May 30-JuneUtt)lizing Effective Features of Professional Development to Support STEM IT eaching Assistants to Exhibit Good Teaching Practices Network of STEM Education Center. Omaha, NE.
- Strutchens, M.Şears, R.,& Zelkowski, J. (2019, May 2)Clinical experience research action cluster. Presentation for the MTEartnership Webinar Series viratp://mtep.info/zoom
- Sears, R. 2019, May 6-8) Participate in The Americanssociation for the Advancement of Science (AAAS) working group meeting focuser STEM teacher retention in high-need schools. Washington DC.
- Sears, R.(2019, April 7-9).Improving Research on Mathatrics Teachers and Teaching: Discussions of Measures and Methodession Chair for Am

Presentation at the annumaleeting for the Associatin of Mathematics Teacher Educators. Orlando, FL.

Strutchens, M., &Sears, R.(2019, January 11). Attaining exterice in secondary mathematics

- Dupree, L.& Sears, R.(2017, April 5-8). The hidden treasures in student misconceptions. Presentation at the ational Council of Teachers Mathematics (NCTM) Annual Meeting. San Antonio, TX.
- Hopf, F., Sears, R., Torres, A., & Williams, C. (2017, March, 9-12) Does mastery learning for online college algebra students hance students' performance resentation at the 29th International Conference Trechnology in Collegiate Maematics. Chicago, IL.
- Oloff, J., Sears, R.Junor Clarke, P., Brosnan, P., Riggs, Grady, M., Biagetti, S., Stone, J., Gainsburg, J., Spencer, C., Andreason, J., Dayt., & Cheng, I. (2017, February 9-11). Measuring co-teaching during clinical experiences Presentation at the Association of Mathematics Teacher Education (ATM) Annual Meeting. Orlando, FL.
- Sears, R., Dupree, L. (2017, February 9-11) sing students' misconceptions as a source for rich mathematical discours Presentation at the Associon of Mathematics Teacher Education (AMTE) Annula Meeting. Orlando, FL.
- Sears, R, Hopf, F., & Butler, K. (2017, January 4-7)Developing intermediate algebra students' mathematical communications Workspace assignments in MyLabsPlus. Presentation at the Joint Mathematics Witest for American Mathematical Society (AMS) and Mathematical Association America (MAA). Atlanta, GA.
- Sears, R.,Hopf, F., Torres-Ayala, A., & Wliams, C. (2017, March 9-12)Using plan-do-study-act cycles to transform inductory mathematics course resentation at the 28th International Conference Technology in Collegiate Maematics. Chicago, IL.
- Torres-Ayala, A., Williams, C.Şears, R, & Hopf, F. (2017, March 9-12)Let's talk: The benefits of interdisciplinary conventions in transforming math courses esentation at the 29th International Conference on Technology in Collegial teathematics. Chicago, IL.
- Wieman, R., Bieda, K., Buchbinder,, ©ook, A., Males, L., McAneny, T., Sears, R.(2017, February 9-11) Technique and purpose: Separating and integrating doing and thinking in representations of practic Presentation at the Associat of Mathematics Teacher Education (AMTE) Annual Meeting. Orlando, FL.
- Sears, R., Burgos, F. (2016, June 26-28) eveloping middle school preservice teachers' knowledge of number and operation resentation at the APLU- Mathematics Teacher Education Partnership Annulaleeting. Atlanta, GA.
- Sears, R, & Burgos. F. (2016, June 8-9).collaborative effort todevelop middle school preservice teachers mathematical content knowledgesentation at the APLU- Science and Mathematics Teacher Imperative Mual Meeting. San Antonio, TX.
- Sears, R, & Burgos, F. (2016, January collaborative effort to address the Common Core State Standards for Mathematics in a middlehool mathematics aleher certification program. Presentation at the American Mathematical Society (AMS) and the Mathematical Association of America (MAAI) int Mathematic Meeting. Seattle, WA.
- Sears, R.,Grady, M., Cayton, C., Brosnan, P., Sipipe, R., Preston, R., & Strutchens, M. (October 27-29, 2016)Transformingclinical experience for secondary mathematics with co-teaching strategies Presentation at the Nation Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Sears, R., Hopf, F., & Torres-Ayala, A. (2016, March 10-13) eveloping preservice teachers mathematical content knowledge with MyMathTesPresentation at the 28th International Conference on Technology in Collage Mathematics. Atlanta, GA.
- Sears, R.,Oloff-Lewis, J., Biagetti, S., Brosnaff,, Stone, J., Grady, M., Cayton, C., Andreason, J., Gainsburg, J., Spencer, C., Riggs, Lin,of-Clarke, P., & Cheng, I. (2016, October 27-

- 29). Measuring co-teaching at various sages of a plan-do-study-act cyd resentation at the National Conference on Co-Teachand Collaboration. Bloomington, MN.
- Torres-Ayala, A.Şears, R, & Hopf, F. (2016, March 10-13)Multiple testingopportunities in college algebra: Does it promote student successes sentation at the 28th International Conference on Technology in College Mathematics. Atlanta, GA.
- Sears, R.(2015, June 3-4)Ensuring preservice secondary teachers are prepared for state certification examsPresentation at the APLU iSoce and Mathematics Teacher Imperative (SMTI) National Conference. New Orleans, LA.
- Sears, R, Burgos, F., & Wooten, R. (2015, January 122) llaborative effort to address content and practice standards in a middle schood thematics teacher preparation program Presentation at the American MathematicSociety (AMS) and the Mathematical Association of America (MAA) Join Mathematics Meeting. San Antonio, TX.
- Sears, R.,Hopf, F., & Torres-Ayala, A. (2015, March 12-15) ollege Algebra students' perspective of the SMART Lab learning environmemesentation at the 27th International Conference orethnology in Collegiate Mathematics. Las Vegas, NV.
- Chavez, O., &Sears, R (2015, January 12) Informal and formal proofs in geometry: Evidence from a large-scale curriculum comparison sturgesentation at the American Mathematical Society (AMS) and the Mathematical Association of America (MAA) Joint Mathematics Meeting. San Antonio, TX.
- Hopf, F., & Sears, R (2015, March 12-15)Enhancing college algebra with team-based activities. Presentation at the 27th Internation and Internation of the Internation
- Hopf, F., Sears, R, Torres, A. & Maher, M. (2014, March 20-23) Help me solve this" does it?

   Implications of an online tool on student learning esentation at the 26th International Conference on Technology in Collegial at Internations. San Antonio, TX.
- Kersaint, G., Sears, R, Vomvoridi, E., & Krajcevski M. (2014, February 6-8)P. artnership to design a middle school mathematics teachreparation program from the ground up. Presentation at the 18th American Asation of Mathematics Teacher Educators (AMTE) Annual Meeting Irvine, CA.
- Kersaint, G. &Sears, R (2014, June 7) The Transformation of Middle School STEM Teacher Preparation Program: A Collaborative Designeresentation at the APLU Mathematics Teacher Education Partnership. Milwaukee WI.
- Kersaint, G., &Sears, R.(2013, June 7-9) collaborative effort to develop a middle school mathematics teacher preparation programmes entation at the APLU- Mathematics Teacher Education Partnership Conference. St. Louis, MO.
- Sears, R (2013, June 13-15) increasing high school students proofs: Addressing shoromings of textbook Presentation at the R. L. Moore Legacy and Inquiry Based Learning conferent Austin, TX. Retrieved from http://www.youtube.com/watch?v=XUAiKfY8WAw
- Sears, R.,& Kersaint, G. (2013, October 4-@ultivating relationships between mathematicians and mathematics teacher educators catio, Oce

Sears, R (2011, October 20-23) examination of preservice mathematics teachers' proof schemes Presentation at the North Americana pter of the Interactional Group for the Psychology of Mathematics Education. Reno, NV.

- Officials and Leaders within St. Petersburg Floridanhattan Casino Event Hast. Petersburg, Floridanttps://www.youtube.com/watch?v=AbeZhm3a4dc
- Sears, R.,Gallardo, G., Reese, G. D., Dutton, T., Rogielt, J., McHale, J. P., Akiwumi, F., Edmond, J., Bradham-Cousar, M., Bladesh, J., & Thompson-Dorsey, D. (2021, October 14)Community Conversation: SupportingdRat Equity in St. Petersburg Florida. Virtual. <a href="https://www.youtube.om/watch?v=NnvlZT4cRig">https://www.youtube.om/watch?v=NnvlZT4cRig</a>
- Sears, R., Chavez, O., & Tarr, J. (2021, October 130 SMIC Study. Invited speaker for Ohio University course. "Mathematics Oriculum in Kindergarten-Grade 14" Facilitated virtually.
- Sears, R.& Kudaisi, Q. (2021, August 21 & August 28)nchin Center Professional development: Attending to J.E.D.I in mathematiEacilitated a workshop for teachers. Tampa, FL. (POSTPONED)
- Sears, R.(2021, June 9)Catalyzing Change in mathematics attending to justice, equity, diversity, and inclusion (J.E.D.I.)Presentation at the FloadCouncil of Teachers of Mathematics (FCTM).
- Sears, R.(2021, May 13).Presentation for the Quality of Life StudPyresentation at City Council of St. Petersburg on StructuRatcism Study. St. Petersburg, Florida. <a href="https://stpete.granicusom/MediaPlayer.php?view\_id=4&clip\_id=5247&meta\_id=105480">https://stpete.granicusom/MediaPlayer.php?view\_id=4&clip\_id=5247&meta\_id=105480</a>

- Sears, R (2019, September 14) nstructional Pairs Training for Clinical Experiences in Secondary Mathematics it was Attention to EquityProfessional Development at USF. Tampa Florida.
- Sears, R.& Beneteau, C. (2019, February 15) teractive classroomnegagement strategies. Presentation at USF STEM Education Workshop. Tampa, FL.
- Sears, R, Castro-Minnehan, C. (2019, January 30-FebruaryPir)pmoting Equitable Learning Opportunities in Mathematics via Opportunities and Co-teaching Strategies resentation at the joint meeting of the Florida DistanLearning Association (FDLA) and Florida Association of MathematicTeacher Educators (FAMT.EA)Itamonte Springs, FL.
- Castro, C., Pinder, C., Sears, R.(2018, October 10-13)Co-planning and Co-teaching Strategies in Secondallyathematics ClassroomsPresentation at the Florida Council of Teachers of Mathematics Annual Mieg. Daytona Beach, Florida.
- Pinder, C., &Sears, R.(2018, October 10-13). Embring Students' Mathematical Identities in the Teaching and Learning of Mathematics essentation at the Florida Council of Teachers of Mathematics Annual Mieg. Daytona Beach, Florida.
- Sears, R, & Kamlue, N. (2018, October 10-13). iblg Problem Based Learning to Promote Student Success in Secondary Mathematics.sentation at the Florida Council of Teachers of Mathematics Annual Mieq. Daytona Beach, Florida.
- Potter, R. &Sears, R.(2018, August 14-18). STEERING" the Course to Promote Effective Teaching Practices within STEM Laboratories inversity of South Florida, Tampa Florida.
- Sears, R., Dupree, L., & Pinder, C. (2017, October 18-20)

- Sears, R, Bassila, A., & Butler, K. (2016, July 26) sing NASA resources to promote inquiry based learning Presentation at the Florida Association Career and Teacher Education (FACTE) Annual Meeting. Buena Vista, FL.
- Sears, R, & Butler, K. (2016, October 20-22) ransforming secondary education with improvement science plan-do-study-act (PDSA) cyelessentation at the Florida Council of Teachers of Mathematics (FM) Annual Meeting. Orlando, FL.
- Morales, L., &Sears, R.(2015, Oct 15-17)Soaring with NASA space math: Taking the mathematics beyond lower earth orbaresentation at the Florida Council of Teaching Mathematics (FCTM) Annual Meeting. Orlando, FL.
- Sears, R. (2015, August 1)Cultivating STEM education with ASA educational resources: Climate change Retrieved from https://www.youtbe.com/watch?v=X7tT853Ru8E
- Sears, R.(2015, August 1)Cultivating STEM education wifNASA educational resources: Rockets and nix mooRetrieved from https://www.youtube.com/watch?v=MZW2WNv9XAk
- Sears, R, Vomvoridi- Ivanovic, E., & Muler- Karger, F. (2015, August 17)sing NASA educational resources toronote STEM education? resentation at the University of South Florida NASA STEM Education Prosessnal Development Training. Tampa, FL.
- Butler, K. & Sears, R.(2014, October 23-24)The play phenomenon: Transforming mathematical classroom with toyexesentation at the Florida Council of Teachers of Mathematics (FCTM) Annual Meeting. Palm Harbor, FL.
- Hopf, F., & Sears, R.(2014, March 6)Flipping the classroom in upper level math with EWA Webinar for Cengage Publishing. Retrieved from http://www.cengage.com/tlconodeclient/discipline/archived\_online\_seminars.do?disciplineld=54
- Sears, R., Karadeniz, I., Butler, K. (2014, October 24) sessing the Standards for Mathematical Practice in high school geometry resentation at the Fload Council of Teachers of Mathematics (FCTM). Palm Harbor, FL.
- Smith, S., Sears, R & Karadeniz, I. (2014, October 23) et's play: A showcase of online games to promote mathematical learning resentation at the Florida Council of Teachers of Mathematics (FCTM). Palm Harbor, FL.
- Butler, K., & Sears, R.(2013, October 16-18) dentifying and remediating mathematical and computer anxiety when using MyMathlab in an algebra coursessentation at the Florida Council of Teachers of Mathatrics (FCTM) Annual Meeting. Orlando, FL.
- Hopf, F. & Sears R (2013, October 24) Filipping the classroom with EWAWebinar for Cengage Learning. Retrieved from https://cengage.webex.com/cengage/lldp?AT=pb&SP=MC&rID=71874817&rKey=b3 cd17d9940d6ec1
- Hopf, F., & Sears, R. (2013, November 19)USF SMART lab: An example of flipping the classroom using good practice resentation at the University Sof South Florida Academy for Teaching and Learning Excellence (ATLE) Workshop. Tampa, FL.
- Hopf, F., Sears, R, Torres, A. & Maher, M. (2013, October 16-18) MART lab: Providing opportunities for students techieve success in mathematice resentation at the Florida Council of Teachers of Mathematical Annual Meeting. Orlando, FL.
- Karadeniz, I., &Sears, R(2013, October 16-18)Transform the teaching and learning of science, technology and mathemst(6TEM) using Google Sketch Uppesentation at the Florida Council of Teachers of Maematics Annual Meeting. Orlando, FL.

- Sears, R (2013, October 16-18) increasing students' opportunes to engage in reasoning and proof in high school mathematics classrod in esentation at the Florida Council of Teachers of Mathematic in Mathematic in Council of Teachers of Mathematic in English in the Florida Council of Teachers of Mathematic in the Florida Council of Teachers of Tea
- Sears, R (2012, November 16)Combating the challenges enacting proof tasks: Presentation at the University of South Florida Mathmatics Education Colloquium. Tampa, FL.
- Sears, R (2012, October 18-20) Proofs in geometry textbook Eask features and levels of cognitive demandPresentation at the Florida Oncil of Teachers of Mathematics (FCTM) Annual Meeting. Orlando, FL.
- Sears, R.(2011, October 26-28)What does it take to make a convincing proof argument? Presentation at the National Council of a Conference and Exposition. St. Louis, MO.
- Tran, D., Spain, V., &Sears, R.(2011, December 2-3)Mathematics manipulatives: Learning through play.Presentation at the Missouri CourofflTeachers of Mathematics (MCTM) Annual Meeting. Columbia, MO.
- Sears, R.,Tran, D., Thomas, A., & Taylan, R. D. (2010, December **3-40**)m chalk-talk to tech-talk: Let's transformPresentation at the Misson Council of Teachers of Mathematics (MCTM) Annual Meeting. Columbia, MO.
- Sears, R., Tarr, J., & Ross, D. (2010, February B) ut what about teacher beliefs? Making sense of self-report data by mathematiteachers of two curriculum type resentation at the University of Missouri Mathematics-Science Education Research Colloquium. Columbia, MO.
- Chavez, O.Şears, R, & Cumming, L. (2009, December 4-5) aking abstract mathematics concrete with Geogebra? resentation at the Misseri Council of Teachers of Mathematics (MCTM) Annual Meeting. Columbia, MO.
- Sears, R., Chavez, O, & Nevels, N (2009, December 45) ing visual proofs for instruction an alternative assessment resentation at the Missouri Council of Teachers of Mathematics (MCTM) Annual Meeting. Columbia, MO.
- Television, Movie, and SociaMedia Live Presentations
- Sears, R.(2022, March 14)(1) Math Excellence Dr. Ruthmae Sears. This presentation was hosted by Anastacia Palacious on Bahamas at Sunrise. https://www.facebook.com/203218586408312/videos/524579002427305
- Sears, R.(2022, March 4). AAAS award viral celebrati in The Bahamas. This presentation was hosted by Spence Finlayson Immediate Response. https://www.facebook.com/znsweofficial/videos/384241176399107
- Sears, R (2022, February 28) JSF math professor shows students the beauty of numbers. was produced by Kelly Ring for Fox 13-ftpa Bay, What's Right in Tampa Bay segment. <a href="https://www.fox13news.com/news/ulsfath-professor-showstudents-the-beauty-of-numbers?fbclid=lwAR3ihYE2ZanxSb0gx9tspWWtVQWYpWuuzXZM1kLT2saNwit1D59GGCOWc">https://www.fox13news.com/news/ulsfath-professor-showstudents-the-beauty-of-numbers?fbclid=lwAR3ihYE2ZanxSb0gx9tspWWtVQWYpWuuzXZM1kLT2saNwit1D59GGCOWc</a>
- Sears, R.(2022, February 16). A discussion on strough racism in St. Petersburg. The community conversation was sponsored bynToolo Books and the African American Heritage Association (AAHA). Broadcasteive on the TomboloBook Facebook page. https://fb.watch/bhdrxMx4Fv/

MATH 1100- College Algebra

University of South Florida MAT 1033- Intermediate Algebra

MAE 3224 - Middle Schod Mathematics Methods 1

MAE 4320 – Teaching Mathematics for Middle Grades

MAE 4945 – Practicum iMathematics Education

MAE 4330 - Teaching High School Mathematics

#### Graduate

University of South Florida MAE 6356 – Teaching Pre-secondary Mathematics

MAE 6362- Senior High Mathematics Methods

MAE 6329 – Geometry and Meassment for Middle Grades Teachers

MAE 6338-Topics in Teaching Geometry

MAE 6906 – Independent Study Mathematics Education

MAE 6945 – Practicum iMathematics Education

MAE 7146 – Curriculum Historynad Research in Mathematics Education

MAE 7910 – Directed Research in Mathematics Education

MAE 7945 – Practicum in Maematics Education

MAE 7980 – Dissertation

#### Faculty and Staff

University of South Florida Inasive and Equitable Pedagogy Course

(https://www.usf.edu/innovative-edation/citl/inclusive-equitable-experience.asp)x

University of South Florida Enlightenment Serietges://www.usf.edu/president/antiracism/resources/enlightenment-series.aspx

# RESEARCH SUPERVISION (Students for whomI serve as a Major Professor, co-Major Professor, or Committee Member)

Dissertations	
2012 - 2015	Dr. Ilyas Karadeni Committee Member (Graduated) Dissertation Title: UCSMP teachers' perspectives when using graphing calculators in advanced mathematics
2012 - 2016	Dr. Kenneth ButleCommittee Member (Graduated) Dissertation Title: Motivation for mathematics: The development and initial validation of an abbreviated instrument"
2016 -2019	Dr. Keisha Albrith – Chairperson (Graduated) Dissertation TitleRatios and Proportional Reasoning Representations in Open Educational Resources
2015 - 2018	Dr. Pelagia KilgoreCommittee Membe(Graduated) Dissertation Title:Adult College Students' Perceptions about Learning Mathematics via Devenmental Mathematical xMOOCs
2015 - Present	Lakesia Dupree – Co-Chairperson Dissertation Title: 'Mathematics Teacher Preparation Reimagined: The Next Generation Upper Elementary School and Middle Grades Teacher Candidates Enacting Culturally Responsive Teaching in a Mathetins Methods Course that Addresses Grades 5-9 Mathematics Content
2018- 2021	Queshonda Kudaisi – Chairperson (Graduated) Dissertation Title: L'earning, Planning For, and Reflecting on Teaching Mathematics for Sobibustice: A Case Study Investigation of a High Scholdathematics Methods Course"
2018- 2021	Cynthia Castro-Minman- Chairperson (Graduated) Dissertation Title: An Ecology of Learning: Secondary Mathematics Teacher Candidate Learning While Co-Teaching in Early Clinical Practice
2017- Present	Caree Pinder – Chairperson Dissertation Title: Intermediate Algebra Students' Perspectives Towards Learning Mathematics, and Technology"

2018- Present Prathima Gogumulla- Co-Chairperson

Tentative Dissertation Title: L'évels of Cognitive Demand and Authenticity of Real-World Pollems in Grade 8 Probability and

Statistics Curriculum Materials

2022 – Present Matthe Wi Brien – Chairperson

2022 – Present Alexandra Green – Chairperson

2019- Present Dennis Ward – Committee Member and External Chairperson for

the Defense.

Dissertation Title: The Effects of Motivationally-Enhanced Digital Game-Based Learning on Undergraduate Students' Learning Motivation, Math Achievement, and arning Retention in College

Algebra'

# **Undergraduate Honors Theses**

2014 - 2015 Cassandra Garton - Co-Chairperson

Thesis Title: Intermediate Algebra StudePerspectives of the Usefulness and ChallengesLogarning Mathematics in a

Computerized Learning Environment

2016 - 2017 Shivani Sookchand - Co-Chairperson

Thesis Title: Exploration of Art Programs in Mathematics

Courses to Promote Inclusiveness

2017- 2018 Abbi Rinaldi – Co-Chairperson

Thesis Title: Integrating Statisticisnto Undergraduate

Journalism Curriculum

2021 – 2022 Erika House – Chairperson

Thesis Title: Mathematics Education Reform:

Gender Differences in Applicatory of Mathematics Courses

2022-2023 Alyssa Eman- Chairperson

Thesis interest: Bi-lingual stregies to support English Language

Learners in Mathematics

#### SERVICE ACTIVITIES

January- April, 2021 I'm Speaking SeriesHosted by the Women and Leadership

Initiative – The Bishop Center for Ethical Leadership.
Role: Co-Creator and Facilitator. Links to sessions are:
<a href="https://www.youtube.com/watch?v=ejSC6QSwM.yoghttps://www.youtube.com/watch?v=50FE4vdrNflhttps://www.youtube.com/watch?v=K\_088ILoO1E">https://www.youtube.com/watch?v=K\_088ILoO1E</a>

National Football League (NFL) -Super Bowl LMuddle for Change.

Role: Facilitator on sessions focusion racial equity and health

equity. The link to the Kickoff

Recording: <a href="https://vimeo.com/50264901">https://vimeo.com/50264901</a>4

March 2020- Present National Council of Thears of Mathematics (NCTM) journal,

Mathematics Teacher: being and Teaching PreK-1(2MTLT).

Role: Associate editor fothe high school grade band

December 2019- Present Tampa Bay Blackitaline Festival Leadership Luncheon

Role: Co-Chair.

August 2019- 2020 Florida Council of Tearshef Mathematics – State Standards r

Role: Reviewer for calculus, genetry, algebra, probability, and

statistics.

June 2019- Present Bay View Alliance

Role: University of South Florida Representative for the Diversity

Equity and Inclusion Working Group.

January 2017-2020 Association of Mathatines Teacher Educators (AMTE) Research

Committee

Role: Committee Member

September 2016 - Present ThEMaT 3/besketch Modules - Unersity of Maryland

Role: Inquiry group member

May 2016 - Present Florida Distancealtning Association (FDLA) Conference

Role: Planning Committee Member

January, 2016 - Present Florida Departmoé Education – State Course Numbering

System (SCNS)

Role: Discipline Coordinator for Mathematics Education (MAE)

and Science and MathematiEducation (SMT)

August 2014 - Present AmericEducational Research Association

Role: Reviewer for the mathemast education and teaching and

teacher education Special Interest Groups (SIGs).

August 2014 - Present National Conferent Teachers of Mathmatics Publications

Role: Reviewer

April 1 2015 - Present Stea Science & Engineering Fair of Filda

Role: Senior Judge

October 2012 - Present Florida Asation of Mathematics Teacher Educators (FAMTE)

Role: Vice President for public uneirsities (2016-Present), and

secretary (October 2014-2015).

April 2014 – June 2020 Mathematics Teacher Education Partnership (MTEP)

Role: Chair of co-planning and ceatching research action cluster.

March 2014 - 2017 Florida VEX Robotics State Championship

Role: Senior Judge

February 2014 - Present Hillsborough Regional Science Fair

Role: Senior Judge for Behavizand Social Sciences category.

September 2013 - Present Florida of the Certification Examination

Role: Evaluator of assessment itempsteacher certification in the

state of Florida.

August 2012 - Present National Councilleachers of Mathematics (NCTM) –

Research Pre-session

Role: Reviewer and Facilitator

August 2012 – August 2016 Congress of Equip Research in Mathematics Education

(CERME 8 and CERME 9)

Role: Reviewer

February 2011 - Present Psycholog Wathematics Education North American

Chapter (PME-NA) Role: Reviewer

June 2009 - Present Mathetics Teaching in the Middle School Journal

Role: Reviewer

May 2009 - Present Sociol Science and Mathmatics Journal

Role: Reviewer

April 2009 - Present Ronald Moonald House Charities (RMHC)

Role: Volunteer and member of thoo and of directors for RMHC

Tampa Bay (effective December 2020).

2007 - 2008 National Science Council for The Bahamas

Role: Appointed member by the Governor General (The queen's

representative).

2007 - Present PACE Foundation Bahamas

Role: Board Membehttp://www.pacebahamas.com/

University Service

September 2022- July 2025 University South Florida- Faculty Senate

Role: Senator for the College of Education

January 2021-Present FloaicAlliance for Graduated Eucation and Professoriate

(FLAGEP).

Role: Senior Scholar and Mentor.

September 2020-Present University of the Florida- Institute on Black Life.

Role: Faculty advisor.

July 2020- July 2023 University of SobulFlorida - University-Wide Sabbatical

Committee Role: Member

June 2020- Present University of ush Florida Black Steering Committee

Role: Co-chair of Professional Delopment committee and host of

Enlightenments Seriest(ps://www.usf.edu/president/anti-

racism/resources/enlightenment-series.aspx

May 2018 USF Research Boot Camp

Role: Senior scholar and mentor

September 2016 - 2018 University Sofuth Florida STEM Education Summit

Role: Planning Committee Member and Presenter

September 2016 - Present University of Structure Black Faculty and Staff Association

(BFSA).

Role: Scholarship review committellost of Annual Breakfast,

Mentor.

January 2016 - Present The University of South Florida STEER Transformation

Implementation Leadership Team (TILT).

August 2019- Present University of Stofflorida – College ofEducation -Constitution

Committee

Role: Chairperson

April 2016 - Present University of SolutFlorida - College of Education Scholarships

Committee

Role: Selection Committee Member

September 2012 - June 2014 Mearthatics Education Colloquium

Role: Facilitator

September 2012 - April 2017 Mathemat Education Search Committee

Role: Committee Member

July 2010 - July 2012 University Missouri Family Friendly Task Force

Role: Sub-committee member for space planning.

February 2009 - April 2010 Center for Study of Meathatics Curriculum (CSMC)

Role: Planning committee member for CSMC Doctoral

Symposium 2010 in San Diego, California.

December 2008 - May 2012 UMC Synthesisjerts for High School Mathematics.

Role: Evaluator for capstone projects.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

February 2021 – Present Sigma XiieStific Research Honor Society

August 2009 - Present Americaducational Research Association (AERA)

February 2013 - Present Associatof Mathematics Tacher Educators

April 2005 - Present Kapa Delta Pi Honor Society in Education

March 2010 - Present Mathetics Association of America (MAA)

November 2005 - Present National Collifor Teachers of Mathematics (NCTM)

February 2010 - Present Psycholog Mathematics Education North America Chapter

(PME-NA)

INDEPENDENT CONSULTANT

2017-2019 Guidepoint

2020- Present Amplify/ XQ

2021- Present Knowledgehook