FRAN HOPF

Education

Ph.D. in Higher Education, Curriculum & Instruction/Math Cognate from The University of South Florida
M.Ed. from The University of South Florida, Tampa, Fl
B.S. from Florida State University, Tallahassee, Fl

Employment History

University of South Florida, Tampa, Fl: *Lecture Professor Mathematics Faculty (2007-present)*

- Teaching blended distance learning College Algebra, Precalculus, and Finite Mathematics courses through Canvas incorporating MyLabsPlus and WebAssign and using The Big Blue Button Conference Link for live synchronous lessons.
- Designed and implemented a new method of delivering currciulum for college algebra that includes one large interactive class using student response pads along with required computer lab classes that use the online interactive programs, MyLabsPlus. This included supervision and professional development of Graduate Teaching Assistants and Math Tutors.
- USF mathematics general education repesentative to the State of Florida Common Core College and Career Readiness Standards Workshops from 2008 to 2010. This work involved helping to identify the most essential skills necessary for success in college entry math courses, writing exemplars for each skill, evaluating the vendor bids for acquiring a placement test for these skills, and evaluating the final online assessment test.
- USF mathematics general education representative to the State of Florida College-level Academic Competencies in Mathematics and Statistics Committee in 2010 . This committee addressed competencies that would normally be found in college-level precalculus mathematics and statistics courses that satisfy both Gordon Rule and general education. Recommendations regarding the college-level academic skills that will be associated with each of the competency categories and what mathematics general education courses they will be taught in were made.
- Wrote the College Algebra and Finite Mathematics curriculum proposal approved by the General Education Committee at USF. That curriculum includes student outcomes that incorporate critical thinking and problem-based learning in an interactive learning environment.
- Participated in the "Increments and Transformations Institute" at USF in summer of 2006, the summer of 2009, and the summer of 2010.
- Co-presented "Clicker" Workshop spring semester 2010 and also developed and facilitated two faculty workshops, "Interactive Online Learning," during the 2006-2007 school year for the USF Center for 21st Century Teaching Excellence department.

- Previously team taught a distance learning college algebra class. Utilized video conferencing for an off campus site. The class received weekly lectures with videotapes available on campus and a live weekly call-in algebra hotline TV show on the Education Channel for homework questions.

Hillsborough Community College, Tampa, Fl: *Assistant Professor Mathematics (1984-2007)*

- Taught courses from developmental mathematics through calculus I, some with distance learning
- Developed and taught a course on how to overcome math anxiety
- Developed course curriculum, helped staff and managed math learning labs, chaired comittees and coached the cheerleading squad

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Publications

Textbooks

- Co-author, Intermediate Algebra, 3rd Edition, McGraw Hill Publishers, 2009
- Wrote the teachers annotated text for an algebra series with International Thompson Publishing (1998)
- Edited algebra textbooks for Prentice Hall Publishers and International Thompson Publishing

Refereed Articles Printed

- **Hopf, F.,** Sears, R., Torres, A., & Maher, M. [February, 2015]. SMART lab: Opening doors to success in college algebra. *MathAMATYC Educator,* 6(2), 9- 14.
- **Hopf, F.**, Sears, R., Torres, A., Maher, M., & McWater, M. (2014). University of South Florida – MylabsPlus- emporium model. *Pearson White Paper Report.* Available online at http://www.pearsonmylabandmastering.com/northamerica/results/files/U_of_S_FL.pdf.
- Sears, R**., Hopf, F**., Maher, M & Torres, A. [2015]. College students' perspectives of the *Help Me Solve This* Tool on their learning of mathematics. *Pearson Efficacy Report.* http://www.pearsonmylabandmastering.com/northamerica/results/files/U_of_South_FL_Dec_18.pdf?v1421173237

Journal Articles being Revised or are Under Review

- **Sears, R**., Torres, A., Hopf, F., Sibol, A., Williams, C. Transforming College Algebra with a SMART Lab Learning Environment. (International STEM Journal – Revise and Resubmit)
- **Sears, R.,** Hopf, F., Torres-Ayala, A., Williams, C., S; Skrzypek, L. (2017). Using Plan-Do-Study-Act (PDSA) Cycles and Interdisciplinary Conversations to Transform College Algebra(PRIMUS – Revise and Resubmit).

Web Blog

- Torres, A., Sears, R., Hopf, F., Williams, C. (2017). The benefits of interdisciplinary conversations in transforming mathematics courses. http://www.pearsoned.com/education-blog/conversations-mathematics-student-performance/

- **Sears, R.,** Hopf, F., Torres, A., & Krajevski, M. (2016) *Utilizing MyMathTest to Ensure Preservice Secondary Teachers Are Prepared For State Certification Exams.* This blog is published by Pearson Education. http://www.pearsoned.com/education-blog/teachers-prepared-certification-exams/

- **Sears, R**., Hopf, F., Torres, A., & Krajevski, M. (2015).*Math talk that builds understanding: Explain, justify and validate*. This blog is published by Pearson Education. http://www.pearsoned.com/education-blog/math-talk-that-builds-understanding-explain-justify-and-validate/

- **Sears, R., Torres, A., Hopf, F., & Krajevski, M. (2015). *Checklist for scaling up a student learning initiative in mathematics*. This blog is published by Pearson Education.** http://www.pearsoned.com/education-blog/checklist-for-scaling-up-a-student-learning-initiative-in-mathematics

Dissertation

- **Hopf, F. (2011).** *The impact of a short-term review treatment program on student success in a college algebra course*. (Doctoral Dissertation). University of South Florida, Tampa, Florida.

Refereed Proceedings or Symposium Publications

- **Sears, R.**, Butler, K., Hopf, F., & Skrzypek. (2017, January). *Transforming Secondary Mathematics Curriculum to Promote Interdisciplinary STEM Concepts.* Presented at the Hawaii International Conference in Education. Honolulu, HI.

Workshops & Presentations

- **Hopf, F**., Sears, R., Torres, A., & Williams, C. (2017, March, 9-27). *Does Mastery Learning for Online College Algebra Students Enhance Students' Performance.* Presented at the twenty-ninth annual International Conference on Technology in Collegiate Mathematics. Chicago, IL.
- Sears, R., **Hopf, F**., Torres-Ayala, A., Williams, C. (2017, March 9-12). *Using Plan-Do-Study-Act Cycles to Transform Introductory Mathematics Courses.* Presented at the twenty-eight annual International Conference on Technology in Collegiate Mathematics, Chicago, IL.
- Torres-Ayala, A., Williams, C., Sears, R., & **Hopf, F.** (2017, March 9-12). *Let's Talk: The Benefits of Interdisciplinary Conversations in Transforming Math Courses*. Presented at the twenty-ninth annual International Conference on Technology in Collegiate Mathematics. Chicago, IL.
- Sears, R., **Hopf, F**., Torres-Ayala, A. (2016, March 10-13). Developing preservice teachers mathematical content knowledge with MyMathTest. Presented at the twenty-eight annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA
- Torres-Ayala, A., Sears, R., & **Hopf, F**. (2016, March 10-13). *Multiple Testing Opportunities in College Algebra: Does It Promote Student Success?* Presented at the twenty-eight annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA.
- **Hopf, F.**, & Sears, R. (2015, March 12-15). Enhancing college algebra with team-based activities. Presented at the twenty-seventh annual International Conference on Technology in Collegiate Mathematics, Las Vegas, NV.
- Sears, R., **Hopf, F**., Torres-Ayala, A. (2015, March 12-15). *College Algebra students perspective of the SMART Lab learning environment*. Presented at the twenty-seventh annual International Conference on Technology in Collegiate Mathematics, Las Vegas, NV.
- **Hopf, F**., & Sears, R. (2014, March 6). Flipping the classroom in upper level math with EWA. It can be accessed at http://www.cengage.com/tlconnect/client/discipline/archived_online_seminars.do?disciplineId=54
- **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.* Presented at the twenty-sixth annual International Conference on Technology in Collegiate Mathematics, San Antonio, Texas.
- **Hopf, F.**, & **Sears, R.** (2014, March 6). Flipping the classroom in upper level math with EWA. It can be accessed at http://www.cengage.com/tlconnect/client/discipline/archived_online_seminars.do?disciplineId=54
- **Hopf, F**., & Sears, R. (2013, November 19). USF SMART Lab: An example of flipping the classroom using good practices. Presentation at the Academy for

Teaching and Learning Excellence (ATLE) Workshop. University of South Florida, Tampa, FL.

- **Hopf, F.** & Sears R. (2013, October 24). Flipping the classroom with EWA . Webinar sponsored by Cengage Learning. It can be accessed at https://cengage.webex.com/cengage/ldr.php?AT=pb&SP=MC&rID=71874817&rKey=b3cd17d9940d6ec1
- **Hopf, F**., Sears, R., Torres, A. & Maher, M. (2013, October 16-18). *SMART Lab: Providing opportunities for students to achieve success in mathematics*. Presented at Florida Council of Teachers of Mathematics. Orlando, Florida.
- **Hopf, F**., Developed and presented "Just the FAQ's: Algebra I", video vignettes for the Education Channel in Hillsborough County, which won first place in the 2005 "Southern Sunshine Awards" sponsored by the Southeast Region of the Alliance for Community Media. It took top honors in the "Instructional Series" category, judged against other entries from public, educational and governmental channels across seven states in the southeast region.
- **Hopf, F**., Presented a session at the AMATYC Convention in San Diego, 2005: "On-line Math Students-Loners or Interacters"; Co-presented a session at the AMATYC Convention in Atlanta, 1997: "College Algebra at USF, a Distance Learning Approach"
- **Hopf, F**., Co-hosted a live-call in Algebra hotline TV hour once a week on the Education Channel in Hillsborough County for 3 years (1994-1997)
- **Hopf, F**., Wrote the script and presented a CLAST Review set of videos (1997)

Interactive Math Software Consulting Work

Cengage Publishing: *Lead Faculty/Training Consultant (2008-2012)*

- Serve as lead trainer for instructors using the online math management and interactive tutorial system called WebAssign.

Houghton Mifflin: *Faculty Advisor/Training Consultant (2005-2007)*

- Did on-campus training for mathematics instructors at various universities in the south using Eduspace interactive software

McGraw Hill: *Symposium Presenter* (2006)

- Presented ideas on how to integrate the mathematics interactive software, ALEKS, in a college math class.