

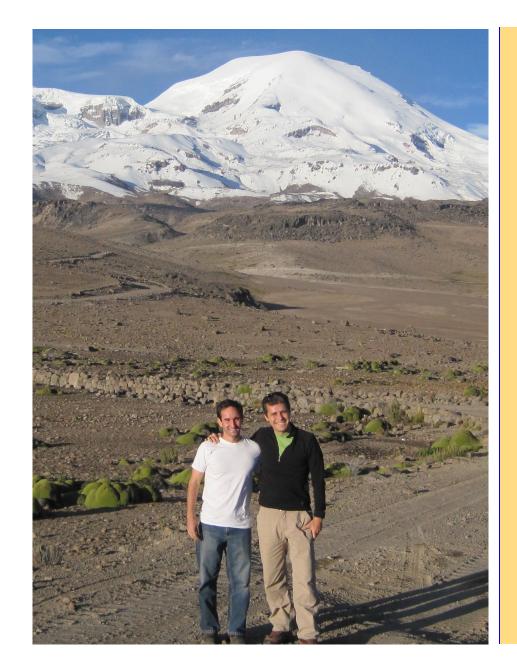
## LOOKING AHEAD:

# Enhancing the Preparation of STEM Undergraduates for Graduate Studies



Sandra Russo, PhD<sup>1</sup>, Henry Frierson, PhD<sup>2</sup>, Nikki Kernaghan, PhD<sup>1</sup>, <sup>1</sup>International Center and <sup>2</sup>Graduate School: University of Florida, FL/USA

#### GOALS AND OBJECTIVES OF I-CUBED AT UF:



DEVELOP INTEGRATION AND SYNERGIES IN RESEARCH, TRAINING, AND EDUCATIONAL PROGRAMS

BROADEN COLLABORATION INCLUDE UNDERGRADUATE AMONG STUDENTS AND FACULTY IN STEM AND SBE DISCIPLINES THROUGH RESEARCH AND EDUCATION OPPORTUNITIES

STUDENTS IN PROGRAM **ACTIVITIES TO ENHANCE** THEIR PREPARATION FOR **GRADUATE STUDY** 

LAUNCH A SMALL SUITE OF PROFESSIONAL DEVELOPMENT, EDUCATIONAL, AND TRAINING ACTIVITIES FOR GRADUATE STUDENTS WITH EMPHASIS IN PEDAGOGY, ETHICS, AND MENTORING

ENCOURAGE AND BROADEN THE PARTICIPATION OF UNDER-REPRESENTED STUDENTS IN PROGRAM ACTIVITIES



#### INTERDISCIPLINARY RESEARCH PROJECTS

I-CUBED has funded 20 research awards to graduate student interdisciplinary teams, nine of which included undergraduates as research team members.

**Undergraduate** students benefited from their participation in these interdisciplinary projects by:

- •MENTORSHIP from project leaders
- •Hands-on experience conducting research
- •Using their cultural and disciplinary knowledge
- •COLLABORATION with the project leaders
- PRACTICAL skill development with project activities

AN interdisciplinary research team in 2010 investigated the University of Florida's capacity to broaden participation and support for students with disabilities.

IMPACT: In 2013, two of the graduate student leaders were awarded funding for a four-year NSF project to support the achievement of undergraduates with learning disabilities in STEM disciplines called "Comprehensive Support for STEM Students with Learning Disability" (HRD-1246587).



#### SUPPORTING UNDERGRADUATE MENTORSHIP

**SINCE** 2012, the Graduate Student Mentoring Award has recognized graduate students who act as mentors to undergraduate students at UF, their fellow graduate students, and in K-12 classrooms.

THIRTEEN of the sixteen awardees have engaged in undergraduate mentorship.

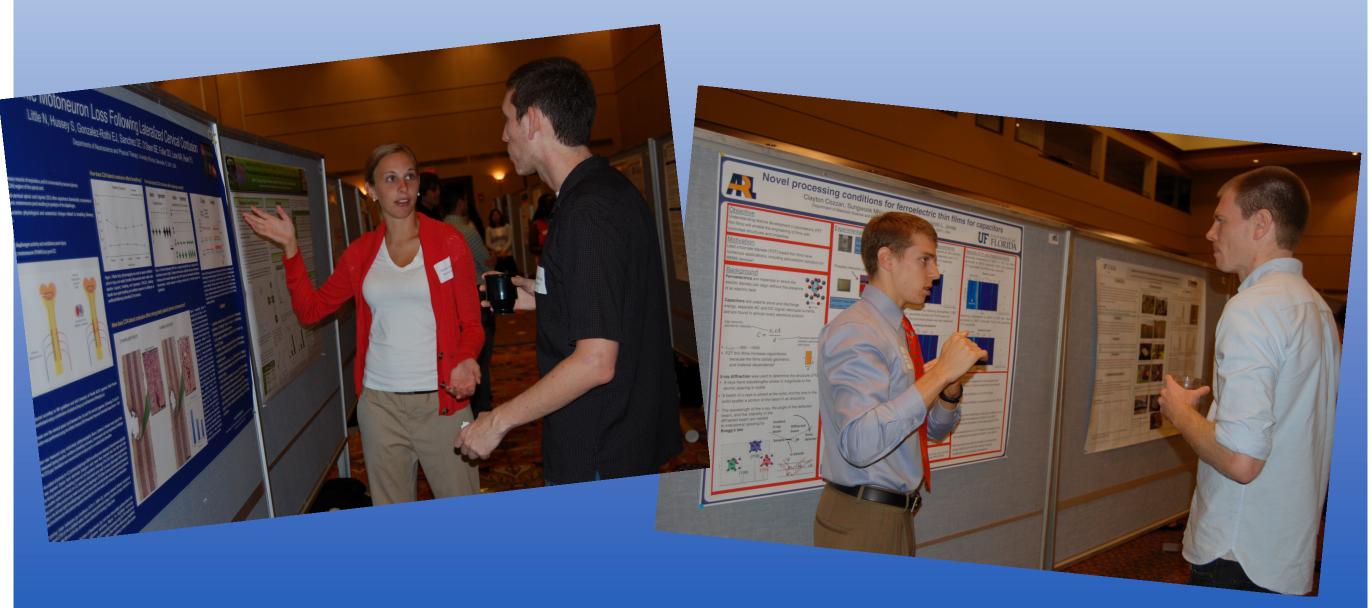


For the past two years, recipients of the Graduate Student Mentoring Award have been recognized for their mentoring efforts with undergraduate students, graduate students, and in K-12 classrooms.

THE I-Cubed Graduate Student Advisory Council assisted the Center for Undergraduate Research with the launch of the UF Research Database, a matching tool to connect undergraduate students to research opportunities with graduate students and faculty.

#### SUPPORTING UNDERGRADUATE RESEARCH

**Undergraduate** students who participate in research activities are invited to present posters at the annual Graduate Student Research Day and attend the professional development workshops.



Student Research Day (formerly NSF Research Day).

**ANNUALLY**, one undergraduate presenter wins the Best Undergraduate Poster Award.

•2010: 8 undergrads presented posters

•2011: 12 undergrads presented posters

•2012: 20 undergrads presented posters

•2013: 23 undergrads presented posters

### www.i3.institutes.ufl.edu



I-Cubed Program at the University of Florida 1765 Stadium Road, Suite 170 HUB Gainesville FL 32611 Phone: (352) 273-1531

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