



Research News

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NSF Funds Computer Science Scholarship Program

The National Science Foundation (NSF) has awarded a grant of \$621,925 to Kean University to further develop a S-STEM Scholarship program aimed at increasing the number of academically talented, financially needy students graduating with undergraduate degrees in Computer Science and Information Technology. The proposal, entitled "Project ASK: Applying Student Knowledge for Success in CS and IT," was developed and submitted by Dr. Patricia Morreale and the project is under her direction. Drs. Jack Ryder, Juan J. Li, Jing-Chiou Liou, and Miguel A. Mosteiro are co-PIs. A total of 40 students will benefit, with each receiving a 2-year scholarship of \$7,000 annually while majoring in CS or IT and selected for this program. The objectives of the program are ambitious and include: scholarship support for students, at least 50% of whom are from underrepresented minority groups in the CS and IT professions; undergraduate research and/or professional experience prior to graduation; increase in department-wide retention in CS and IT degrees programs from 44% to 60%; and, at least 70% of the students securing jobs in New Jersey or elsewhere, and at least 30% of the students pursuing professional employment or graduate studies.

The acronym, "ASK", for applying student knowledge, refers to the use of shared student insight into problem-solving, teamwork, and leadership. The use of teamwork, small class sizes, collaboration and student-motivated question and answer sessions supports recent

research in the field of computer science regarding educational impact and retention, particularly for minorities, female, and first-generation students.

The ASK Scholars will participate in weekly workshops and cohort experiences. They will closely interact with the PI, co-PIs and other faculty members, who will provide academic advising, general guidance, teamwork, leadership, professional and research experience. The leadership experience will come from participation in professional student organizations and local and regional programming contests. Coupled with undergraduate research experience from participation in faculty research programs and/or professional experience gathered from participation in the existing cooperative education program and summer opportunities, these individual and cohort experiences will provide a basis for overall intellectual growth and promote increased student confidence, retention, and timely degree completion for post-graduate employment and continued education.

In the past 12 years, both at Kean and prior to Kean, Dr. Morreale has received over nine million dollars in grant funding. Her funding includes a prior NSF S-STEM grant at Kean as well as funding from Google and Computing Research Association. In 2013, Dr. Morreale was named Faculty Research Mentor of the Year.

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Dr. Patricia Morreale

Research Compliance Matters

Basic Policy Issues

All applicants to the IRB should be aware of some basic policy issues when preparing their protocols for submission. First of all, if the research study is going to be conducted on the grounds of a public place (i.e. shopping mall), hospital/nursing home, or other academic institution (school or college), then researchers must submit a signed letter from that institution to the IRB with their application materials. Any application that fails to include such a

document will not be granted an approval until said material is presented to the IRB. The documentation has to take the form of a signed letter on the letterhead from that institution or organization; emails are not an accepted form of documentation.

Another policy issue to be aware of is the use of emails and phone numbers on consent, assent, and debriefing forms. Non-Kean emails and phone numbers are not permitted. Student applicants should provide their Kean

email address as well as the Kean email and phone number for the faculty advisor of the project. All faculty advisors must be identified on all consent, assent and debriefing forms. No project with a student PI will be approved without identification of the faculty advisor

Contact Dr. Joseph Cronin jcronin@kean.edu or ext 73464 for questions and guidance related to research compliance.



Grant Administration

Cost Transfers for Externally Funded Grants and Contracts

Cost transfers are initiated in writing by the Project Director/Principal Investigator or a designee to the Office of Research and Sponsored Programs. In some cases a cost transfer will be initiated by the Grants Post-Award Administrator for Grants Accountant if they find an error during the day to day monitoring of expenditures to a sponsored project.

When a cost transfer is needed, a memo or email should be submitted to the Office of Research and

Sponsored Programs for approval, the cost transfer request will then be forwarded to Grants Accounting to make a correcting journal entry to effect the transfer.

Contact Brenda Dunlop bdunlop@kean.edu or ext. 73345 for questions and guidance relating to grant administration.

Deadlines & Reminders

Save the date! Kean Research Days April 29—30, 2014



Thursday, March 20	Poster Design Workshop for Students—Session I
Tuesday, March 25	Poster Design Workshop for Students—Session II
Thursday, March 27	SPSS Workshop
Tuesday, April 1	IRB Application Deadline

Student Spotlight

Wenzhou Kean Students to Participate in Research Days 2014



Three teams of Wenzhou-Kean students are scheduled to present their research during Research Days 2014. The student teams are all mentored by Drs. Tiffany Y. Tang and Pinata Winoto, faculty in the Computer Science department at Wenzhou-Kean.

The students will prepare poster presentations and will also record a two-minute video presentation explaining their research. Research Day attendees will be able to scan QR codes located on the poster panels to view the videos.

Jiangyue Yan's project is titled "Campus Tours by Your Phone" and describes his project of designing a mobile phone application with location-aware technology that can be used to show visitors and new students around the Wenzhou campus, including displays of classrooms, labs, and university landmarks. Relic Wang, Candice Chen, Will Wang, and Hui You teamed up on an ambitious project to create an intelligent ambient home entertainment environment that is sensitive to the presence of users. The lighting, music, and video in the room respond to the gestures, feet and leg movements, and facial expressions of the

users. Xinhe Zhou looked at the question of whether search engines are depleting our analytical skills and making us think less. There have been a number of studies looking at Google users. Xinhe looked at Baidu, the Chinese Google, in this pilot study.

The three Wenzhou-Kean poster presentations will be part of 154 total student posters at this year's Research Days event.

Kean is the first American public university authorized by the Chinese Ministry of Education to establish a comprehensive higher education institution in Wenzhou, Zhejiang province, just south of Shanghai. The Wenzhou-Kean University project entered its second year last September.

ORSP News

Methods for Developing Large, Collaborative Proposals Workshop



Dr. Susan Polirstok

Thursday, April 3
12:30 - 1:30 p.m.
UC 226

Large-team collaborative grant proposals or research projects can be very rewarding but also very difficult to develop. The project management, strategic planning, and communication skills required are almost as important as the research on which the project is based. Sarah Brophy, grants writer and consultant, will start the workshop with a discussion of specific approaches and tools, such as logic models, and team participation and design.

Dr. Polirstok, along with other Education faculty, will share her experiences and lessons learned when working collaboratively with school districts and other universities on large grant proposals.



R Statistical Package Workshop

Tuesday, April 8
12:30 - 1:30 p.m.
UC 226

R is a free software environment for statistical computing and graphics. According to the R-project website, one of R's strengths is the ease with which well-designed publication-quality plots can be produced, including mathematical symbols and formulae. Dr. Sheela Pandey, from the School of Management, Marketing and International Business, has used R in her research and will discuss some of its features.

Community-Based Research: Opportunities and Challenges in Bridging Gaps Workshop

Thursday, April 17th
12:30pm (lunch beginning at 12pm)
East Campus 125A

Panelists:

Daniela Colognori, PsyD
Jennifer Gardner, OTD, OTR
Sharon McKenzie, PhD, MS, CDP
Claire Mulry, OTD, OTR, CAPS

This session, the first of a series of co-sponsored roundtables (one per semester), will address the opportunities and challenges of research activities grounded in the community. Kean faculty members engaged in scholarly activity in various settings and roles, will discuss their experiences developing and maintaining partnerships, engaging potential participants, and navigating various obstacles. Audience members are encouraged to bring questions and contributions related to their own work interests in community-based research.

Government Grant Opportunities

Opportunity Title	Due Date
<u>US Department of Justice - Research on Gangs and Gang Violence</u>	4/25/2014
<u>US Department of Justice - Research and Evaluation on Children Exposed to Violence</u>	4/25/2014
<u>US Department of Justice - Building and Enhancing Criminal Justice Researcher-Practitioner Partnerships</u>	5/28/2014
<u>National Science Foundation - Cyber-Physical Systems</u>	6/2/2014
<u>National Institutes of Health - Alcohol Use Disorders: Treatment, Services, and Recovery Research - R03</u>	6/16/2014

Foundations and Corporations

Opportunity Title	Due Date
<u>American Cancer Society - Institutional Research Grants</u>	4/1/2014
<u>Whitehall Foundation - Basic Biological Research Grants</u>	4/15/2014
<u>Bill and Melinda Gates Foundation - Grand Challenges</u>	5/6/2014
<u>American Floral Endowment - Scientific Research Grants</u>	6/1/2014
<u>Camille and Henry Dreyfus Foundation - Special Grant Program in the Chemical Sciences</u>	6/5/2014

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