

# BUILDing SCHOLARS

*at Rice University*  
*May 31–August 4, 2017*



An intensive ten-week summer  
undergraduate research experience



- Conduct challenging summer laboratory research with one of six participating Rice faculty mentors



**Dr. K. Jane Grande-Allen, Program Director**

Isabel C. Cameron Professor of Bioengineering  
Integrative Matrix Mechanics Laboratory

*Engineering analysis to understand & fight heart valve disease*

**Dr. Loren Raun, Faculty Mentor**

Faculty Fellow in Statistics  
Ensor Raun Research Group

*Environmental statistics, human health risk assessment,  
air, soil and ground water pollution fate and transport*



**Dr. Amina Ann Qutub, Faculty Mentor**

Assistant Professor of Bioengineering  
Systems Biology Laboratory

*Integrating biological systems theory and design to  
characterize hypoxic response signaling and neurovascular  
dynamics*



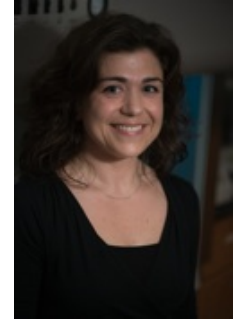
# RICE

## Invested Faculty Mentors

### **Dr. Laura Segatori, Faculty Mentor**

T.N. Law Assistant Professor of Chemical & Biomolecular Engineering, Bioengineering, Biochemistry & Cell Biology

*We develop innovative, system-level strategies based on the integration of chemical genomics, and synthetic and systems biology approaches aimed at identifying modulators of cellular quality control mechanisms with the ultimate goal to restore proteostasis.*



### **Dr. Caleb Kemere, Faculty Mentor**

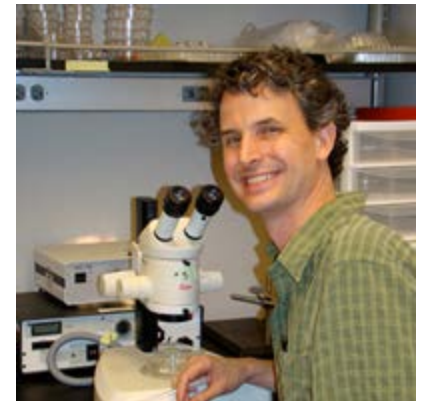
Assistant Professor of Electrical & Computer Engineering, Bioengineering Realtime Neural Engineering Lab

*Designing systems to interact with complex neural circuits in vivo which enables the exploration of how information is processed, stored, and retrieved in both healthy brains and in models of human neurological diseases and disorders.*

### **Dr. Daniel Wagner, Faculty Mentor**

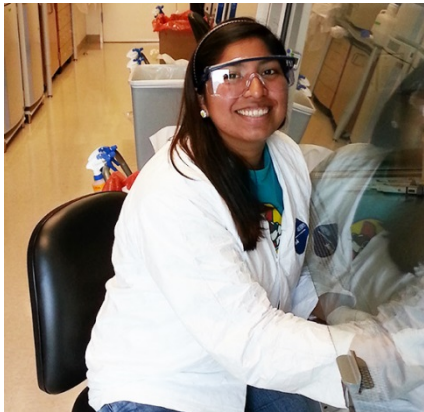
Associate Professor of BioSciences

*Analysis of development of the zebrafish embryo to understand the genetic basis of cell differentiation and cell behavior*



## Connection with other undergraduate summer researchers for:

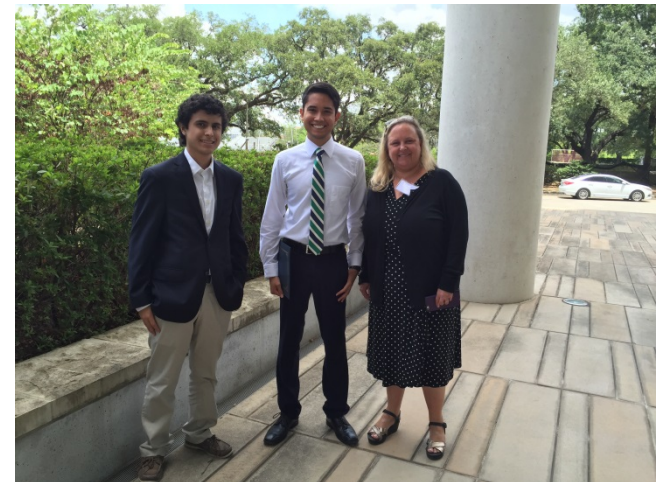
- Journal Clubs
- Discipline Specific Seminars



- Ethics & Responsible Conduct of Research Training
- Social Activities
- Culminating Summer Poster Symposium

## One-on-One Guidance for:

- Information on Available Graduate Programs
- Choosing & Applying to Graduate School
- Recruitment to Graduate School





**Summers 2017, 2018, 2019:**  
Five BUILD Scholars will be selected

**ROOM, BOARD & TRANSPORTATION  
PROVIDED**