

MONICA KALA

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EDUCATION

TULANE UNIVERSITY

Biomedical Engineering Candidate, Expected Graduation May 2018

New Orleans, LA
August 2014 – May 2018

- Relevant Coursework: Circuits, Electronics, Cell Biology, Organic Chemistry, and Engineering Mechanics
- Academic Honors: Dean's Honors Scholar; Dean's List (3 semesters); Tulane University Honors Program; National Merit Finalist; Alpha Lambda Delta (Women's Honors Society)
- Pre-Medical Society Member
- Overall GPA: 3.75/4.00

EXPERIENCE

TULANE UNIVERSITY BIOMEDICAL ENGINEERING DEPARTMENT

Research Assistant in Cellular Biomechanics and Biotransport Laboratory

New Orleans, LA
August 2016 – Present

- Conduct an independent research project that tests the synergistic effect of high intensity focused ultrasound and temperature sensitive liposomes containing chemotherapy on liver and prostate cancer *in vivo*
- Prepared tissues for immunohistochemical analysis

SUMMER RESEARCH EXPERIENCE FOR UNDERGRADUATES

Research Assistant at Tulane University in Mathematical and Computational Biofluids sponsored by the National Science Foundation.

New Orleans, LA

May 2016 – Present

- Perform simulations of panels characterized with springs and beams and seek to maximize thrust output
- Evaluate the effects of fluid forces on the panels by applying the Navier-Stokes and Euler-Bernoulli equations
- Assessed the performance of flexible panels with non-uniform stiffness

TULANE UNIVERSITY HOUSING DEPARTMENT

Desk Services Coordinator

New Orleans, LA
August 2015 – May 2016

- Collaborate with housing staff to develop programs and address issues within the residence hall
- Enforce rules and regulations to ensure the smooth and orderly operation of the residence hall
- Assist in day-to-day, administrative tasks such as documenting residence hall guests and encoding access codes for all 250 residents of the building

LEADERSHIP AND SERVICE

PHI MU FRATERNITY DELTA CHAPTER

Secretary and Discipline Chair (previously assistant secretary fall 2015)

New Orleans, LA
December 2015 – Present

- Manage and organize the event calendar and reservations for the entire chapter
- Document minutes of all chapter meetings and send out biweekly chapter updates to National Headquarters and all chapter members
- Record and track attendance for over 200 members at all events
- Improve communication and transparency between the executive board and the chapter by ensuring all meeting minutes are accessible to all chapter members
- Counsel chapter members about their offenses and formulate potential solutions to better our sisterhood

CHILDREN'S HOSPITAL OF NEW ORLEANS

Volunteer in Post-Anesthesia Recovery Unit

New Orleans, LA
August 2016 – Present

- Communicate patients' needs to nurses and act as a liaison between parents and nurses
- Organize patient space and equipment, prepare beds, and restock recovery room supplies

SCIENCE AND ENGINEERING HONORS SOCIETY

Treasurer (previously engineering representative Aug. 2015-May 2016)

New Orleans, LA
May 2016 – Present

- Organize meetings and club events including general body meetings, faculty meet and greets, professor lectures, and more
- Act as a liaison between the students in the school of science and engineering and the faculty in the department in order to better relations and communication between the two bodies
- Arrange meetings with faculty members in the engineering department and invite professors to speak at events hosted by the organization

HEART OF HOSPICE

Volunteer

New Orleans, LA
October 2015 – Present

- Visit hospice patients in nursing home in order to increase morale through activities such as reading books and coloring
- Manage and organize computer files on patients upon completion of a HIPAA seminar