

Gary Graduate School

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EDUCATION

University of Richmond (UR), Richmond, VA

Bachelor of Science in Biology, Neuroscience Concentration, Chemistry Minor

May 2020

GPA: 3.75

Relevant Courses: Molecular Genetics, Cell and Molecular Biology, Evolution and Diversity of Life, Research Methods and Analysis, General Chemistry, Organic Chemistry, Physics I and II with Calculus, Clinical Neuroscience, Cellular Neurophysiology

Honors:

- Biology Honors Program
- Golden Key International Honour Society
- Dean's List: Spring 2018 – Fall 2019

RESEARCH / PUBLICATIONS

Undergraduate Honors Research, UR, Department of Biology

Fall 2018 - Present

- Worked with Dr. Craig Kinsley and Dr. Scot Knight in the development of a real-time PCR protocol for examination of mitochondrial specific *cytochrome c oxidase* protein abundance in the rat hippocampus
- Experiments extended to transgenic mice genetically predisposed to express Alzheimer-like symptoms

Research Poster Presentation, Washington, DC

Fall 2019

- *Pregnancy/Motherhood induction and maintenance of neuroplasticity in the Maternal Rat.* Kinsley, C., Banks, M., Karelina, K., Rima, B., Contino, R., and Graduate, G.
- Presented at the 38th Annual Society for Neuroscience Meeting, Washington D.C.

Summer Research Fellow, UR, Department of Neuroscience, Richmond, VA

Summer 2018

- Worked with Dr. Craig H. Kinsley in attempt to characterize the effects of reproductive experience on the rodent brain
- Specifically examined the effects of such an experience on mitochondrial abundance in hippocampus and preoptic area using immunocytochemistry and confocal microscopy
- Awarded UR Summer Fellowship to fund summer research experience

Research Poster Presentation, Richmond, VA

Spring

2018

- *Sensory and Neural Up-Regulation in Females Following Reproductive Experience.* Banks, M., Kinsley, C., Karelina, K., Contino, R., Rima, B. and Graduate, G.
- Presented at the UR Undergraduate Research Symposium, Richmond, VA
- Abstract available: research.richmond.edu/students/Gary_Graduate.htm

RESEARCH INTERESTS

- Biomedical research and the theoretical mechanisms of the aging process
- Medicine & Neurophysiology
- The intersection of science and religion

LABORATORY / COMPUTER SKILLS

- Confocal microscopy
- Image J analysis
- Immunocytochemistry
- Golgi Stain
- Gel Electrophoresis
- IR spectroscopy
- Standard oocyte physiologic recording techniques (i.e. voltage-clamp)
- Microsoft Word, PowerPoint, Excel, Origin
- Ample experience with journals and library research including Medline, Pubmed and EBSCO host

VOLUNTEER EXPERIENCE

Volunteer, Home Again Emergency Shelter, Richmond, VA Fall 2018 – Present

- Care for children (ages 2-13) while parents attend lifestyle improvement meetings
- Serve food to homeless and battered women at various festivals in Richmond throughout the year

Intern, International Hospital for Children, Richmond, VA Summer 2018

- Scheduled doctor's appointments and transported children to and from appointments; helped purchase food, clothing, and medication necessary during family's stay in the United States
- Provided office assistance to employees including conducting data entry, performing background checks, and filing

ACTIVITIES

Rho Iota, University of Richmond Fall 2018 - Present

- Greek life Christian group, attend weekly meetings

Kappa Sigma Fraternity, Beta-Beta Chapter, University of Richmond Spring 2016 - Present

- Vice President, Spring 2019 - Present
- Alumni Relations Committee, Fall 2018
- Toys for Tots- Team Captain (Philanthropic event), Fall 2017

Physics Olympics, University of Richmond, Department of Physics Spring 2018

- Helped in the planning and coordination of the 1st Physics Olympics with Dr. Con Beausang
- Served as a judge for the high school competition