

# Rimsha Malik

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## EDUCATION

**Princeton University**, Princeton, NJ

**Expected Graduation May 2021**

- A.B. Candidate: Concentration in Ecology and Evolutionary Biology and Certificate in Neuroscience

**Urban Assembly School for Criminal Justice**, Brooklyn, NY

**September 2009 - June 2016**

- Advanced Regents Diploma with Honors - Class of 2016 Valedictorian
- Activities: Speech and Debate Extemporaneous Speaking, Afro-Latin Jazz Academy of Music, American Museum of Natural History Dynamic Earth Research Course, Phillips Exeter Academy Summer School, National Student Leadership Conference – Medicine and Healthcare

## EXPERIENCE

**SAVE – A Friend to Homeless Animals**, Skillman, NJ

**Fall 2019-Present**

*Foster Program Participant*

- Fostered a litter of orphaned neonatal kittens and provided a safe environment as they continued to wean and gain socialization skills
- Monitored the infants' well-being and development, visited shelter vet, and submitted updates to the Foster Coordinator regarding progress

**Princeton Neuroscience Institute**, Princeton, NJ

**Fall 2018 – Fall 2019**

*Undergraduate Research Assistant*

- Study early life stress and anxiety using maternal separation and early weaning models in mice under the mentorship of Dr. Sahana Murthy and Professor Elizabeth Gould
- Collect data on infant and adult mice behavior, conduct behavioral anxiety tests, and perform laboratory procedures such as preparing solutions and prepping brain tissue for immunohistochemistry and microscopy
- Attend weekly lab meetings to read and discuss relevant scientific papers and present data

**Mpala Research Centre and Wildlife Foundation**, Laikipia County, Kenya

**Summer 2019**

*Undergraduate Research Assistant*

- Participated in a Princeton Environmental Institute internship advised by Professor Dan Rubenstein to study 1) the effectiveness of silage in improving cattle microbiomes and preventing illness during the transition between dry and wet seasons and 2) the impact of cattle grazing patterns on livestock health, wildlife, and vegetation
- Collected and analyzed data from the field and assisted with GPS tracking, weighing, and recording behavioral observations of focal animals from herds of pastoralist and Mpala cattle as well as with monitoring camera traps and sampling vegetation

**Williamsburg Veterinary Clinic**, Brooklyn, NY

**Summer 2018**

*Veterinary Assistant*

- Assisted veterinarians and technicians with appointments, patient restraint, surgical procedures, taking vitals, filling prescriptions, venipuncture, radiographs, IV catheterization, subcutaneous fluids, cystocentesis, vaccinations, and humane euthanasia
- Communicated with clients regarding the health of their dog/cat during appointments and by phone/email, and performed reception duties such as scheduling appointments and managing patient health records

**Cape Wildlife Center**, Barnstable, MA

**Spring 2018**

*Undergraduate Veterinary Intern*

- Assisted veterinarian and technicians with physical exams, diagnosis, and treatment of patients during medical procedures of intubation, anesthesia, venipuncture, radiography, bandaging, suturing, and humane euthanasia
- Performed laboratory work, calculated drug doses, and administered subcutaneous fluids, IV/IM injections, and oral/topical medications
- Syringe-fed and tube-fed orphaned infant mammals such as raccoons, opossums, rabbits, and squirrels
- Cared for and prepared diets for over 40 species of Cape Cod wildlife including seabirds, waterfowl, songbirds, raptors, mammals, and reptiles

**Sean Casey Animal Rescue**, Brooklyn, NY

**Fall 2014 – Summer 2017**

*Foster Program Participant* (Summer 2017)

- Fostered a litter of orphaned neonatal kittens and provided a safe environment as they continued to wean and gain socialization skills
- Monitored the infants' well-being and development, and submitted updates to the Foster Program Coordinator regarding progress

*Volunteer Kennel Attendant* (Fall 2014-Summer 2016)

- Performed tasks to ensure that all essential needs and care of shelter animals are met
- Assisted potential adopters with the handling, temperaments, and the adoption process of animals

**NASA Goddard Space Flight Center - Goddard Institute for Space Studies**, New York, NY

**Summer 2016**

*High School Intern*

- Undertook a six-week NASA GSFC internship as part of the NASA GISS Climate Change Research Initiative and operated in a research team at Stevens Institute of Technology's School of Engineering in Hoboken, NJ
- Acquired engineering design and construction laboratory techniques and Arduino IDE C++ robotics programming skills
- Communicated study on the analysis, design, and construction of obstacle-avoiding and light-sensing autonomous robots

**The Rockefeller University**, New York, NY

**Summer 2015**

*High School Research Assistant*

- Completed an internship in the Department of Neuroendocrinology under the mentorship of Dr. Nicole Bowles and Professor Bruce McEwen
- Acquired biomedical research skills and laboratory techniques by running Western Blots, RT-PCR, and Immunohistochemistry
- Communicated study on the role of CB1 receptor signaling in mitophagy through the hippocampal response to chronic light disruption in mice

## ACTIVITIES

Princeton University Equestrian Team (Fall 2018 – Present)

Scholars Institute Fellows Program (Fall 2018 – Spring 2019)

The Opportunity Network (Summer 2014 – Present)

Princeton University Muslim Students' Association (Fall 2016 – Present)

Princeton Pre-Vet Society (Fall 2018 – Present)