BLUE IVY WELLESLEY

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EDUCATION

Wellesley College, Wellesley MA

Bachelor of Arts in Neuroscience; Minor-Psychology   *Expected Graduation Dec 2020*

Cumulative GPA: 3.0

- Relevant Courses taken include Cell Biology, Genetics, Psychology of Statistics

Massachusetts Institute of Technology, Cambridge MA   *Fall 2019*

- *Cross Registered Student*: Relevant courses taken include Anatomy and Physiology 1&2, General Chemistry, College Physics

Jacobs University, Bremen Germany

Semester Abroad Program   Spring 2019

- Relevant courses taken include Cell Biology, Memory, Higher Order Cognition

RESEARCH INTERESTS

Research Domains Criteria (RDoC), DSM, variability, autism, schizophrenia, neuro-cognition, neural correlates of psychopathology, psychiatry, human variation, dimensional psychological constructs, neuroscience, cognitive and behavioral neuroscience, clinical psychology.

AWARDS & FELLOWSHIPS

Wellesley College Lingos Prize in Life Sciences, Wellesley MA

Recipient   *September 2020*

- Awarded for demonstrating both a marked aptitude for independent research and a depth understanding in the life sciences.

Fulbright Scholarship

Nominee   *May 2020*

- One of 10 nominees awarded a Fulbright Scholarship to pursue Ph.D. in Neuropsychology

RESEARCH & LABORATORY EXPERIENCE

Wellesley Science Center Summer Research Program, Wellesley, MA

Student Researcher   *June-August 2020*

- Learned new computational methods (complete and partial charge optimization and molecular dynamics simulations) used for biomolecular research.
- Translated complex computational methods into physical experimental designs
- Conducted experiments to find new antibiotics to mitigate against global resistance to current drugs
- Used Python and MATLAB to examine the effect of conformational dynamics and biomolecular recognition on the optimal binding of drugs to targets
- Implemented physical and chemical characteristics of atoms and molecules in developing models for drug-molecule, drug-target, protein-protein interaction systems

Bauer Neuroscience Laboratory, Wellesley, MA

Research Volunteer   *May-August 2019*

- Performed genetic and imaging experiments and engineered an Arduino-synchronized imaging apparatus under professor Deborah Bauer.
- Investigated the role of glutamate transporters in *C. elegans* behavior

Tetel Laboratory, Jacobs University, Bremen, Germany

Research Intern *January-May 2019*
- Cultivated FRT cells; stained cells with appropriate antibodies and inhibited function with inhibitory drugs
- Independently examined stained cells with Laser Scanning Microscopy
- Compiled and analyzed LSM images

PRESENTATIONS

Wellesley, B. (May, 2020). *"Include the Information": State of information visualization malpractices in psychology and psychiatry.* Poster presentation given at the 22nd annual Ruhlman Conference at Wellesley College, Wellesley, MA**.**

EMPLOYMENT & LEADERSHIP EXPERIENCE

Wellesley College Psychology Department, Wellesley MA

Teaching Assistant (T.A.) *September 2018- Present*
- Selected by my statistics professor to serve as a TA for Statistics of Psychology class
- Hold weekly office hours to assist students by answering questions regarding homework problems, clarifying questions about class material, and prepping them for their exams to ensure academic success
- Graded weekly homework problems

Wellesley Cazenove Hall, Wellesley MA

House President *August 2020-present*
- Manage a dormitory of 328 Wellesley College students
- Lead weekly staff and one-on-one meetings with residential advisors (RAs) and work with professional staff to organize events, manage budget and crisis intervention
- Communicate dorm policy to a residence hall of 328 students to ensure adherence to community standards and a safe living environment.
- Created a snack program for students, with the hopes to increase student community engagement

SKILLS

DNA: extractions and isolations (from food products, plants, cells); agarose gel electrophoresis (casting and running); PCR, including restriction enzyme digestion
Protein: SDS-PAGE, column purification, enzyme assays, modified Bradford Dye Assay, immunoprecipitation/western blot, agarose gels
Software: Java, Python, R (basic data analysis and graphing), MATLAB, Microsoft Office
Analysis: ImageJ, BLAST, PyMOL, JMP Pro 13
Languages: German, Spanish