

Olivia Park

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Education

Virginia Tech, Blacksburg, VA
M.S. Biochemistry
August 2018 - December 2019

University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
B.S. Molecular and Cellular Biology
August 2012 - May 2016

Experience

Biochemistry Departmental Intern, Blacksburg, VA
Intern

April 2019 - Current

Aid in departmental duties and update departmental website. Help plan and organize recruitment events.

ScribeAmerica/Aquity Solutions, Salem and Blacksburg, VA
Scribe

January 2019 - December 2019

Shadowed and completed charts for a variety of providers including Physician's Assistants, Nurse Practitioners and Doctors in the Emergency Department at LewisGale Medical Center and LewisGale Montgomery. Interact with providers and shadow a multitude of procedures not limited to, suturing, central line placement, intubation and etc.

Teaching Assistant for Concepts of Biochemistry, Blacksburg, VA
Teaching Assistant

January 2019 - May 2019

Held office hours for students twice a week to answer questions or go over material. Email correspondence with students on questions they may have had on the content. Attended all classes and took notes. Graded exams.

Color Genomics, Burlingame, CA
Clinical Lab Associate
January 2017 - August 2018

Responsible for the Pre-Analytical aspect of the lab. Including but not limited to sample intake, extracting DNA from samples, batching and norming DNA. Experience in CAP inspection process. Work with Clinical Lab Scientists and Robotics team to create better methods and processes in and outside of the lab. Responsible for scheduling, inventory management and managing other Clinical Lab Associates.

Tech Lab, Blacksburg, VA

Lab Technician

August 2016 - November 2016

Characterizing new techniques that will be used on AKTA systems (edit and revise SOPs). Worked closely with Product Development to purify and decontaminate toxins and antibodies for future products.

Bygo Inc., Champaign, IL

Cofounder, COO

November 2015 - May 2016

Worked on starting a company that creates a marketplace for sharing everyday items. Oversaw day-to-day management and created the splash page for the company. Won the ViaSat award for "Best Demonstration of Connecting the World" at HackIllinois.

School of Literatures, Cultures, and Linguistics at the University of Illinois at Urbana-Champaign., Champaign, IL

Website Manager

April 2014 - August 2015

Managed various websites under the School of Literatures, Cultures, and Linguistics as well as the main website itself. Added and updated content for the website as well as aid in the design of the website.

Research

Jutras Lab - Virginia Tech, Blacksburg, VA

Graduate Student Researcher

August 2018 - April 2019

Studied Lyme Neuroborreliosis, the neurological manifestation of Lyme Disease. Performed ELISAs with patient samples from the NIH. Collaborated with Dr. Adriana Marquez for samples from the NIH. Performed both competitive ELISAs as well as sandwich ELISAs in order to determine if there was a diagnostic marker within patient samples to create a direct diagnostic test for Lyme Neuroborreliosis.

Kelly Lab - Virginia Tech, Blacksburg, VA

Summer Undergraduate Researcher

May 2015 - January 2016

Performed Western Blots and nuclear/cytoplasmic extractions in order to discover the structure of the mutated BRCA1 proteins. Structural analysis would have many applications in developing new drugs and therapies for breast cancer. I cold shocked breast cancer cells in order to observe multiple gene expressions. This would help observe potential causes of structural mutations in the BRCA1 and related proteins.

Morris Lab - Virginia Tech, Blacksburg, VA

Summer Undergraduate Researcher

May 2013 - August 2013

Worked under Professor J. Morris, on molecule encapsulation by creating a high-pressure gas chamber. Attempted to force different gas molecules within a Polyhedral Oligomeric Silsesquioxane (POSS) molecule. Worked with X-Ray Photoelectron Spectroscopy Machine to verify the experiment was successful.

NURI COMMUNICATIONS, Jeju Island, S. Korea

Management Intern

May 2012 - July 2012

Translated formal business contracts from Korean to English and communicated with partners outside of the country. Aided in conference organization, preparation and onsite.

Presentations

Immunology Poster Session, May 2019

Olivia Park, Adriana Marquez, and Brandon Jutras. "Search for Potential Biomarkers in the Treatment of Neuroborreliosis"

Virginia Tech Biochemistry Poster Symposium, February 2019

Olivia Park, Adriana Marquez, and Brandon Jutras. "Search for Potential Biomarkers in the Treatment of Neuroborreliosis"

Leadership/Service

Biochemistry Graduate Student Association, Blacksburg, VA

Orientation Offsite Committee Member, Summer 2019

- Planned offsite retreat for incoming and current members of the Biochemistry Department.
- Set up a budget.

Recruitment Committee Member, Spring 2019

- Planned schedule of events and activities for 2019 Recruitment Week
- Student liaison "Hokie Hosts" for visiting recruits
- Organized Poster Session and Presentations

Travel Award Review Board, Spring 2019

- Reviewed travel grants that were written by other members and awarded money to those that were most qualified.

Holiday Party Committee Member, Fall 2019

- Planned event for the entire department
- Planned activities for children

Tailgate Committee, Fall 2019

- Planned a weekend event for the entire department
- Helped set up and organize

Color Genomics, Burlingame, CA

Company-wide Lab Representative Presentation

- Chosen to represent all Clinical Lab Associates (CLAs) and describe to the entire company what it is CLAs do.
- Created and presented a video of the "Day in the life of a Clinical Lab Associate".

Lab Week 2017 & 2018

- Organize Events for the Lab Team to celebrate lab employees
- Organized company-wide event for "Bring your kids to Lab" Day

Alpha Phi Omega, Urbana-Champaign, IL

Weekly volunteering and service events, Spring 2015 - Fall 2015

Skills

- Proficient in lab skills – Gel Electrophoresis, Chromatography, Protein Assays, MicroPipetting, Plasmid Isolation, Centrifuge Techniques, Spectrophotometer, pH Meters, Western Blot, Fluorescent Microscopy, Microbiology Techniques, ELISA, Cell Culture, HPLC, Hamilton Liquid Handlers, Dropsense, Nanodrop, Bradford, and SDS-PAGE Gel Electrophoresis.
- Proficient in Word, Excel, and PowerPoint
- Experience using X-Ray Photoelectron Spectroscopy Machine
- Working knowledge of JavaScript, Java, Python, C, and HTML/CSS
- Working experience of Android Development
- Proficient in Medical Terminology
- Fluent in Korean (Reading, Writing, and Speaking)