DAVIS M. CATOLICO

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EDUCATION

Claremont McKenna College - Claremont, CA

May 2018

Bachelor of Arts in Neural Engineering, Sequence in Computer Science - GPA: 3.24/4.0

Relevant Coursework: Molecular Neuroscience, Linear Algebra, Digital Electronics & Computer Engineering, Principles of Physics, Computational Neuroscience, Biomedical Engineering, Advanced Mathematical Biology, Advanced Data Structures, Big Data, Management of Technical Enterprise

Technical Skills: Java, Python, C, C++, MATLAB, LaTex, Drupal, Wordpress, Django, Hadoop, HTML, CSS, Arduino **Certifications:** Data Integrity, FDA requirements, Quality Systems, Preparing for Inspections in a Regulated Industry **Lab skills:** Cadaver dissection, PCR, IHC, ELISA, genetic transformation

EXPERIENCE

Alnylam Pharmaceuticals

Aug. 2017 - Present

Keck Graduate Institute - Team Master's Project Consultant

• Collaborating with a team on a year-long consultation assignment to fulfill the senior thesis requirement

Oregon Health Science University - Portland, OR

May 2017 - Aug. 2017

Quantitative Bioscience and Biomedical Engineering Intern

 Developed methods for real-space refinement software to refine cryo-EM maps to high resolution X-ray crystallography models under the guidance of Dr. Michael Chapman

Student Technology Assistant Team - Claremont, CA

Aug. 2016 - Present

Residential Technology Assistant & Lab Technology Assistant

Serving as primary technology help desk for students, solved and documented 50+ technology issues
Backyard Brains - Ann Arbor, MI
May 2016 - Aug. 2016

Neuroethology Research and Development Intern

- Programmed an Arduino-based device to record and manipulate electric signals of weakly-electric fish
- Created an affordable research tool-kit marketed for neuroscience educators and students

Claremont McKenna Office of Public Affairs - Claremont, CA Web Design Intern

Aug. 2015 - Present

Refurbishing site architecture and web content for 7+ official Claremont McKenna institutions

Casa Colina Hospital and Centers for Healthcare - Pomona, CA

Jun. 2015 - Jun. 2016

Clinical Research Assistant - Project Manager

- Designed a clinical study to evaluate Smart Socks by Sensoria Fitness for a potential treatment program
- Managed a team of 8 student researchers and physical therapists to run 100+ clinical trials

ACTIVITIES AND AWARDS

Camp Kesem at the Claremont Colleges - Director

Aug. 2017 - Present

Plan and fundraise for a week-long summer empowerment camp for children whose parents have cancer
CMS Sports Information Team- Statistician
Sept. 2016 - Present

Claremont-Mudd-Scripps Varsity Track and Field - *Jumps Captain and Sprinter*

Aug. 2014 - Present

5C Hackathon - 3rd Place Advanced Section
BrainTense: Created a game to interface with electromyography (EMG) and electroencephalography (EEG) to use brain waves and muscle flexion as input to control a character's movements

5C Hackathon - Best Hack for Scaling Human Connection sponsored by Airbnb

Nov. 2015

5C Dining2Know: An alternative way to view Claremont's dining options integrating Instagram's API

PRESENTATIONS AND PUBLICATIONS

Pre-Health Symposium - Keck Science Institute at the Claremont Colleges

Jul. 2017

Computational Methods of Real-Space Refinement

MID-SURE Poster Symposium - Michigan State University

Jul. 2016

Neural Mechanisms of the Jamming Avoidance Response in the Weakly Electric Fish (Electric Fish Piano)

Archives of Physical Medicine and Rehabilitation - Casa Colina Hospital

Jun. 2016

[Article] Evaluation of a Wearable 'Smart Socks' Gait Monitoring System for Improving Rehabilitation Outcomes