

Morgan Chang

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EDUCATION

Bachelor of Science, Computer Science, Minor in Chemistry

San José State University

Expected Graduation: Dec. 2018

Relevant Coursework:

- Intro to Artificial Intelligence
- Formal Languages and Computing
- Programming Paradigms
- Data Structures and Algorithms
- Bioinformatics
- Object Oriented Design

EXPERIENCE

Workshop Facilitator, Department of Chemistry, *San José State University*

Aug. 2016 – Present

- Write and solve practice problems to help students review concepts learned in class
- Prepare students for lecture and lab exams in group and individual settings

Undergraduate Researcher, Wilkinson Neurophysiology Lab, *San José State University*

Feb. 2015 – Present

- Conduct neurophysiological research studying muscle spindle afferents in mouse model
- Write algorithms to automate data analysis that would take 2 hours per file to do by hand
- Build macros for lab software to reduce necessary data collection manpower by 30%
- Currently developing study on effect of obesity on muscle contractile strength

Content Intelligence Intern, Barracuda Networks, *Campbell, CA*

June 2014 – Oct. 2015

- Classify spam, viruses, and domains on Barracuda Real-Time System
- Refine and create new techniques to detect and stop spam/viruses with engineering teams
- Increased reach of Web App Monitor product by 20%

Software Team Member, US Department of State Fishackathon, *Monterey, CA*

June 2014

- Leverage Instagram API through JSON with AJAX to create low cost avenue to report and track illegal reef trawling
- Leverage Google Maps API to build heat map to visualize report origin concentrations
- Design and build temporary website in HTML, CSS to showcase data collected
- Work with interdisciplinary team over course of two days to produce working prototype

Computer Support Technician, Student Union Inc., *San José State University*

May 2014 – Aug. 2014

- Provide general computer support to users within the Student Union, Inc. including installing software, providing help desk support, and maintaining computer workstations

SKILLS

- **Computer Programming:** *Functional:* Java, *Experience:* Python, Ruby, Visual Basic, HTML, CSS, JSON
- **Software:** Netbeans, Visual Studio, Linux OS, Raspbian OS, LabChart, Microsoft Office
- **Laboratory Skills:** PCR, chromatography, Bradford assay, differential centrifugation, animal (mice) handling and care, intraperitoneal injection, surgery (in mice), retro-orbital bleeding, administration of sedatives/anesthetics
- **Other:** Agile, website/graphic design, data analysis, adaptability, public speaking/presentations, leadership, communication

RESEARCH PRESENTATIONS

Poster Presentations

- The Twelfth College of Science Student Research Day, *San José State University*, May 6, 2016.
Shea Putnam, **Morgan Chang**, Alejandro Lopez, Puneet Sanghera, Katherine A. Wilkinson, ***The Effects of Obesity on Spinal Cord Excitability***
- Celebration of Research & Undergraduate Research Grant Awardee Reception, *San José State University*, Feb. 2, 2016.
Morgan Chang, Katherine A. Wilkinson. ***The Effects of Obesity on Blood Glucose Levels***

REFERENCES

Available upon request