

EDUCATION

- **UCI** Irvine, CA
Bachelor of Science in Data Science *August 2015 – Present*

EXPERIENCE

- **UCSD Keck Center for fMRI** San Diego, CA
Independent Research Intern *January 2013 – June 2014*
 - **Magnetic Resonance Fingerprinting:** MR Fingerprinting was a new MR image reconstruction method at the time. Independently validated the method, as well as explored its boundaries and properties. Presented my findings and an abstract at ISMRM 2015.
 - **Kernel based image reconstruction:** Implemented a kernel based MR image reconstruction algorithm using OpenCL for parallization.
- **NIH/NIMH** Bethesda, MD
Summer Internship Program *June 2017 – September 2017*
 - **Semantic vector extraction:** Carried out research within a group to develop and optimize machine learning algorithms to extract semantic vector information from MR brain data. Participated in weekly lab meetings, and presented my findings at a NIH-wide poster day.

PROJECTS

- **Reddit Front Page Predictor:** A two part project: (1) Reddit crawler to collect time series data on all posts in specified subreddits and (2) Machine Learning model to predict whether or not a post will eventually make it to the frontpage.
<https://github.com/mwong94/reddit>
- **PDQ Android Game:** Developed a simple word game on Android built using Fragments, inspired by the card game PDQ. The game displays randomly generated problems, and provides solutions drawn from a SQLite database.
<https://github.com/mwong94/PDQFragment>

SKILLS

- **Languages:** Python, Java, C, C++, R, Bash, JSON, XML, Perl, YAML
- **SQL:** MySQL, PostgreSQL, SQLite
- **Machine Learning:** scikit-learn, Keras/TensorFlow, CNN, Autoencoders
- **Operating Systems Experience:**
 - MacOS, Windows, UNIX
 - Extensive experience with Debian, RedHat families
 - Virtualization: QEMU, KVM, Xen, Proxmox
- **LaTeX:** This resume is in LaTeX (<https://github.com/mwong94/resume>)
- **Technologies:** AWS, GCE, Beowulf clusters

OTHER

- **Additive Manufacturing** June 2016 – Present
FDM/DLP 3D printing
 - **Industrial Additive Manufacturing:** Enrolled in an Additive Manufacturing course in the Engineering department. Worked with industrial 3D printing systems (Stratasys PolyJet/Fortus) as well as hobbyist style printers.
 - **Hobbyist Printing:** Built and maintain my own DIY FDM and DLP printers.