Giulio Zhou

giuliozhou8@gmail.com | 925.997.8192 | http://giuliozhou.com

EDUCATION

UC BERKELEY

BA IN COMPUTER SCIENCE Expected Dec 2016 | Berkeley, CA Cum. GPA: 3.89 / 4.0

Major GPA: 3.97 / 4.0

COURSEWORK

Artificial Intelligence Machine Learning Computer Networking Data Structures Algorithms Machine Architecture Discrete Math Probability Theory Linear Algebra Stochastic Processes Operating Systems Computer Vision Database Systems

ABOUT MF

I am a fourth year Computer Science student with a passion for artificial intelligence and machine learning. In particular, I'm interested in building systems for unsupervised learning at scale and exploring the intersection between deep learning and traditional methods in vision and inference.

LINKS

Github: giulio-zhou LinkedIn: giuliozhou

SKILLS

PROGRAMMING

Java • Pvthon • Matlab • C/C++ HTML/CSS/JS • Caffe • Spark

WORKFLOW

Git • Vim • Unix • FC2 Trac • Gerrit • Eclipse

WORK FXPFRIFNCE

BERKELEY AI RESEARCH LAB

Feb 2015 - Present | Berkeley, CA

- Worked under Stuart Russell on sampling algorithms for Bayesian LOGic, an open-universe probabilistic modeling language
- Applied an online EM algorithm to solve a Gaussian mixture model for image segmentation in video sequences

AMPLAB

May 2016 - Present | Berkeley, CA

- Worked under Joseph Gonzalez on systems for online training and deployment of machine learning models
- Implemented a C++ RPC server for Vowpal Wabbit linear model predictions
- Investigated the use of contextual bandits for exploration and online learning

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2015 - August 2015 | Mountain View, CA

- Worked on Display Ad Automation Team to improve the quality of Native Ads
- Designed and built a backend pipeline for high-quality automated text-to-image matching for non-English display ads
- Developed quality visualization tools and deployed non-English Native Ads. doubling overall coverage

TEACHING EXPERIENCE

CS 61BL | Undergraduate Student Instructor

June 2016 - present | Berkeley, CA

• Led daily lab sections, created course material for the summer offering of the data structures and algorithms class

CS 61B | Undergraduate Student Instructor

Jan 2016 - May 2016 | Berkeley, CA

• Led weekly discussions, created course material for the 1200-student data structures and algorithms class

CS 170 | Course Reader

Aug 2015 - Dec 2015 | Berkeley, CA

• Graded exams and attended homework parties for the algorithms course

CS 61B | TUTOR/READER

Jan 2015 - May 2015 | Berkeley, CA

• Held office hours and taught a weekly supplementary section

PROJECTS

Image Artifact Removal Using Deep Learning (PyCaffe)

• Trained a deep convolutional neural network to remove JPEG artifacts

Computational Photography Projects (Python)

- Face/image morphing across pre-defined and automatically detected meshes
- Content-aware image resizing and object removal using seam carving
- Automatic panorama generation using adaptive feature point detection and RANSAC outlier elimination

Tour Into Picture (Android, OpenGL)

• Converts a 2D picture into a 3D tour using homography transformations