Matthew Dong

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EDUCATION

- **University of California - Berkeley**   Berkeley, CA
  Bachelor of Arts in Statistics; GPA: 3.88   *Expected Graduation: May 2020*

PROGRAMMING SKILLS

- **Languages (Proficient)**: Python, Java, R   **Langauges (Familiar)**: Javascript, HTML/CSS
- **Tools and Frameworks**: Angular, Flask, Git, Bash, LaTeX
- **Python Data Science Stack**: Pandas, NumPy/SciPy, SciKit-Learn, NLTK, Keras
- **Relevant Subjects**: Computer Programs, Data Structures, Statistics, Probability, Linear Algebra, Data Science, Machine Learning, Natural Language Processing, Web Development

EXPERIENCE

- **Computational Approaches to Human Learning (CAHL) Lab**   May 2017 - Present
  - **Web Developer**: Worked on *AskOski* (askoski.berkeley.edu), a UC Berkeley course recommender system serving the undergraduate student population of 30,000 students.
    Improved the content discovery process and browsing experience by designing and building an "intelligent course catalog" search feature into the user interface.
  - **Research Assistant**: Studying the efficacy of lifting machine learning methodologies from other domains into educational contexts to help improve learning outcomes.

- **Stat 89A: Linear Algebra for Data Science**   Nov 2017 - Present
  - **Course Developer**: Collaborated with other staff to scale existing infrastructure for the pilot full scale version of the course as well as prototyped and refined new course materials.
  - **Teaching Assistant**: Guided and mentored students during office hours and section, graded exams.

PROJECTS

- **SafeFront**: A next generation 911 service for both first responders and relief agencies. Built backend service housing image classification and sentiment analysis models that processed incoming mobile data to rank severity of emergencies. Top 30 finish at PennApps XVIII out of 200 teams.
  Tools Used: Flask, Google Maps API, Twilio API
- **Personal Productivity Blog (2014 - Present)**: Extensive and ongoing personal case study based on data collected on my life. Analyzed data for trends in efficiency, happiness, stress, and more. Wrote articles communicating results revealed by subsequent statistical analyses and published on personal website.
- **Practical Applications Compilation (2015 - Present)**: Collection of real life problems encountered throughout my daily life and academic studies solved through leveraging my technical knowledge.
- **Happiness Advantage Website (In Progress)**: Designing and building website for student-run course based off Shawn Achor's novel *The Happiness Advantage*.
  Tools Used: Angular, Bootstrap

AWARDS

- **Undergraduate Research Fellow - Summer 2018**: Received a $6,000 grant to conduct a self-directed research project under the guidance of a faculty mentor. Presented completed work on educational data mining applications at an undergraduate research conference.