

Edward G. Huang

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Education

2019 UNIVERSITY OF CALIFORNIA, BERKELEY — B.A. in Applied Mathematics
Concentration in Computer Science · Dean's List · Cal Boxing

Experience

- 2020 - APPLE AI/ML — *Machine Learning Engineer*
- Owned, designed, and implemented end-to-end automated data pipelines and workflows.
 - Deployed monitoring tools and interfaces for analysis of real-time systems.
 - Maintained, tested, and optimized existing processes on large data streams.
 - Investigated NLP research problems by designing and evaluating experiments.
- 2018 - 2019 REGENTS OF THE UNIVERSITY OF CALIFORNIA — *Board Member*
- Served as the appointed representative for 270,000+ students on the governing board.
 - Influenced policy decisions by advocating for student diversity and basic needs.
 - Member of the Finance, Investments, and Public Engagement committees.
- 2018 - 2019 NASA — *Research Assistant*
- Deployed deep learning with TensorFlow for real-time flood tracking with satellite imagery.
 - Investigated and tested boundary cases in algorithms.
- 2018 SANTA FE INSTITUTE — *NSF Research Fellow*
- Found 10+ novel mathematical results in algorithmic information theory.
 - Wrote a technical manuscript in collaboration with a MIT professor.
 - Presented results in a final talk to an audience of Harvard, Oxford, MIT academics.
- 2017 - 2020 DEPARTMENT OF MATHEMATICS, UC BERKELEY — *Research Assistant*
- Published several first-author papers in peer-reviewed scientific journals.
 - Led and mentored team of 2-5 top UC Berkeley students to predict astronaut cancer risk.
 - Gave an invited talk to 100+ top scientists and policymakers at a national NASA conference.

Skills

PROGRAMMING: Python, Java, SQL, R, MATLAB, Scheme, Bash.
LIBRARIES, APIS, & TECHNOLOGIES: Hadoop, Spark, Docker, Hive, AWS S3, Airflow, Git
OPERATING SYSTEMS: UNIX, Linux

Selected publications

- 2021 Longpre S, Reisler J, Lu Y, **Huang EG**. (2021) Multi-domain data selection for question answering. *Manuscript in preparation*.
- 2019 **Huang EG**, Lin Y, Ebert M, Ham DW, Zhang CY, & Sachs RK. (2019) Synergy theory for murine Harderian gland tumours after irradiation by mixtures of high-energy ionized atomic nuclei. *Radiat. Environ. Biophys.* 58(2): 151-166. doi:0.1007/s00411-018-00774-x
- 2018 Krehenwinkel H, Fong M, Kennedy S, **Huang EG**, Suzuki N, Cayetano L, & Gillespie RG. (2018) The effect of DNA degradation bias in passive sampling devices on metabarcoding studies of arthropod communities and their associated microbiota. *PLoS ONE* 13(1): e0189188. doi:10.1371/journal.pone.0189188