

Edward G. Huang

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Education

UNIVERSITY OF CALIFORNIA, BERKELEY — B.A. in Applied Mathematics
Board Member · Regents of the University of California

Experience

- 2021 - GOOGLE, SEARCH ADS TARGETING — *Software Engineer, Geo Targeting*
- Generated \$X billion in revenue with novel targeting algorithms and products.
 - Designed and drove complex quality and infrastructure launches from end to end.
 - Conducted and analyzed live traffic experiments for launch evaluation.
- 2022 - 2023 DEEPMIND, APPLIED RESEARCH — *20% Research Engineer, AlphaZero*
- Contributed to launching deep reinforcement learning (RL) systems in production.
 - Added data features to improve agent learning velocity.
 - Evaluated agent behavior against classical baselines.
- 2020- 2021 APPLE AI/ML — *Machine Learning Engineer, LLMs*
- Developed end-to-end scoring models supporting question answering systems.
 - Investigated NLP research problems by designing and evaluating experiments.
 - Built large automated data pipelines with integrated testing and monitoring.
- 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- 2021 NASA & BERKELEY MATHEMATICS — *Researcher*
- 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: C++, Python, Java, R, MATLAB, SQL, Scheme, Bash
TECHNOLOGIES: Hadoop, Spark, Docker, TensorFlow, S3, Git
OPERATING SYSTEMS: UNIX, Linux

Selected Papers

- 2022 Longpre S, Reiser J, **Huang EG**, Lu Y, Frank A, Ramesh N, & DuBois C. (2022) Active learning over multiple domains in natural language tasks. *2022 NeurIPS DistShift Workshop*.
[arxiv:2202.00254](https://arxiv.org/abs/2202.00254)
- 2020 2020 COSPAR Outstanding Paper Award for Young Scientists
Huang EG, Yang RY, Xie LY, Chang PY, Yao G, Zhang B, Ham DW, Lin Y, Blakely EA, & Sachs RK. (2020) Simulating galactic cosmic ray effects: Synergy modeling of murine tumor prevalence after exposure to two one-ion beams in rapid sequence. *Life Sci. Space Res.* 25(1): 107-118.
[doi:10.1016/j.lssr.2020.01.001](https://doi.org/10.1016/j.lssr.2020.01.001)
- 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](https://doi.org/10.1371/journal.pone.0189188)