DUN-MING (BRANDON) HUANG

dunmingbrandonhuang@berkeley.edu

EDUCATION

University of California, Berkeley *August, 2021 - May, 2025*
B.A., Cognitive Science and Computer Science (Double Major) Computer Science GPA: 4.00/4.00
Selection of Courseworks: All-Course GPA: 3.99/4.00
COMPSCI 189: Introduction to Machine Learning (A+)
EECS 127: Optimization Models in Engineering (A+)
COMPSCI 285: Deep Reinforcement Learning (Concurrent)

RESEARCH EXPERIENCE

Research Intern, Max Planck Institute for Empirical Aesthetics *July (June) - August 2023*
Topic 1: Novel MCMC Methods to Sample Linguistic Objects from Populations and LLMs
Topic 2: Human-in-Loop Annotation and Fine-Tunings of Machine Translations
Topic 3: Unsupervised Cross-Domain Alignment of High-Dimensional Psychological Spaces
There are two concurrent collaborations with this research group after internship.
As of time of writing, three publications are expected from development of these progresses.
Supervisor: Dr. Nori Jacoby, Computational Auditory Perception Research Group

PROJECTS

Provably Robust Deep Classifiers Against Adversarial Attack U.C. Berkeley
May 2023
Course project as a replication study of adversarial attacks to dense networks on MNIST digit images.
Reenacted all mathematical works in references to provide further implementation insights.
Proposed novel initiation patterns for L_2 adversarial attack, reducing dense networks accuracy to 0%.

Student Researcher Creative Commons and U.C. Berkeley
September - December 2023
Revive Creative Common's data-driven business analysis projects on product usage from 5 year dormancy.
Host public presentation at U.C. Berkeley detailing analysis results on global scaling of CC products.
Awarded Data Insight Award by U.C. Berkeley amongst 50 other competing groups.

Project LiP: Personal Assistant for Mental Management Self-exploration HCI Project
March-April, June-August 2022
Constructed from scratch a full-stack agent for periodic interventions to prevent burnout.
Self-studied front-end engineering and back-end DBMS, and statistical learners predicting fatigue.
Hands-on experience for face expression recognition across 7 emotion classes at 68% accuracy.

ACADEMIC AND ADMINISTRATIVE EXPERIENCES

Undergraduate Student Instructor U.C. Berkeley
August - December 2023
Course: DATA C100- Principles and Techniques of Data Science

Course Coordinator at Computer Science Mentor U.C. Berkeley
August - December 2023
A student-run organization that provides guidance and resources through free group tutoring sessions.
Co-administrate one of seven branches at this organization with 30+ expected members.

Hosted cross-branch workshops, established public documentations on pedagogical content production.

Academic Student Employee U.C. Berkeley
January 2022 - December 2023
Course Reader at DATA 100 January - May 2023
Course Reader at EECS 16A August - December 2022

AWARDS AND SCHOLARSHIPS

Data Insights Award at Data Science Discovery, U.C. Berkeley *December, 2022*
Recognized for detailed execution of entire data science life cycle amongst 50+ other groups in U.C. Berkeley's Data Science Discovery program.