

YONATAN PAZ-PIEL

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EDUCATION

University of California, Berkeley

Aug 2023 – Present

B.S., Electrical Engineering & Computer Science

GPA: 3.9

- Leadership Award, UCB Alumni Association (for registering 1000 local voters).
- Craig Scholar (for dedication to College of Engineering and campus community).
- Relevant Coursework: Structure and Interpretation of Computer Programs (A+), Data Structures and Algorithms (A), Data Science (A).

TECHNICAL SKILLS

- **Experienced with:** Python, Java, NLTK, pytorch, scikit-learn, pandas, circuit design.
- **Familiar with:** HTML, CSS, SQL, Scheme, Docker, Sparql, wikidata, textract.

RESEARCH

Professor Eos Trinidad, UC Berkeley School of Education

Sep 2024 – Present

NLP Research Assistant (publication forthcoming)

- Applied BERTopic for topic modeling and sentiment analysis on 100,000+ typed and handwritten letters submitted to the CA Dept. of Education, using NLTK and named entity recognition for metadata extraction.
- Developed a methodology to detect duplicate comments and extract text from handwritten and printed documents using OCR.

Dr. Matthew Ong, UC Berkeley Computational Linguistics

May – Sep 2024

ML Research Assistant (publication forthcoming)

- Developed machine learning pipeline for annotating images of 6,000 ancient cuneiform tablets using a custom language model.
- Customized open-source model (BabyLemmatizer) for cuneiform in a different language.
- Expanded dataset by 7% by incorporating new linguistic metadata features, and built a custom Wikibase by converting CSV files into RDF claims.

U.S. Dept. of Health and Human Services, UC Berkeley Data Science

Jan – May 2024

NLP Research Assistant

- Conducted topic modeling and sentiment analysis with NLTK and scikit-learn.
- Used models to analyze 2,000+ reports on services offered to people with disabilities and detected regional sentiment shifts that informed policy decisions using NLTK.
- Quantified relationships between funding, staff-to-consumer ratio, and sentiment.

EXTRACURRICULARS

California Interfaith Association

Jan 2024 – Present

President/Founder

- Founded organization that hosts faculty speakers and community events for students of diverse religious and cultural backgrounds to promote empathy, inclusion, and learning.

California Mock Trial (CMT)

Sep 2023 – Present

Team Captain (10 person team); A-Team Attorney.

- Earned best competitor out of 250 and placed first of 32 teams at UC Irvine Invitational.
- Elected Harm Response Chair, where I lead conflict resolution and harm reduction.