NATANIA WONG

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EDUCATION

University of California, Berkeley **May 2024**
Bachelor of Arts, Honors in Economics, Minor, Data Science, General Distinction, GPA: 3.896

PROFESSIONAL EXPERIENCE

Stanford Digital Economy Lab, Stanford, CA **July 2025 – Present**
Predoctoral Research Fellow *Principal Investigator: Erik Brynjolfsson*

- Design and maintain production data pipelines in PySpark and Databricks that link ADP job postings to payroll microdata, working under restricted-data agreements governing confidential employer records.
- Use LLM-based extraction and classification methods to map unstructured posting text onto O*NET work activity taxonomies, improving on an earlier posting-similarity approach.
- Develop evaluation tooling and human-labeled ground-truth benchmarks to validate pipeline output, including automated HTML review and reporting interfaces used by the research team to triage findings and track results across batches.
- Construct crosswalks reconciling O*NET taxonomy releases.
- Specify and estimate fixed-effects and difference-in-differences models measuring how wage returns to specific workplace activities have shifted since the diffusion of generative AI.
- Maintain project repositories in Git, including documentation of data structures, table definitions, and setup guides so collaborators can reproduce and extend the analysis.
- Draft working-paper text presenting results to faculty advisors and lab affiliates.

Institute for Research on Labor and Employment (IRLE), Berkeley, CA **Sept 2024 – July 2025**
Research Assistant *Principal Investigator: Michael Reich*

- Analyzed the labor-market effects of California's $20 fast-food minimum wage, estimating employment and wage outcomes from administrative and survey data.
- Studied income and education disparities using the Federal Reserve's Survey of Household Economics and Decisionmaking (SHED), producing summary statistics and figures for working paper draft and research memos.

San Diego County Taxpayers Association, San Diego, CA **Jun 2023 – Nov 2023**
Public Policy Intern

- Researched and authored policy memos on municipal governance, homelessness, and government accountability for a public audience.
- Sourced, cleaned, and mapped local tax expenditure data to support published analysis.
- Led communications initiatives that grew the organization's outreach by 130% over two months.

U.S. Arctic Research Commission, Arlington, VA **Jan 2023 – May 2023**
Data Science Researcher

- Compiled a dataset in Python of collaborative research projects across all eight Arctic States, covering financial sponsors and institutional stakeholders in U.S., Russian, and Chinese partnerships.
- Prepared reports and presentations summarizing findings for commission staff.

University of California, Berkeley, Statistics Department, Berkeley, CA **Aug 2023 – Dec 2023**
Reader and Tutor, Introduction to Probability and Statistics (Stat 20)

- Graded coursework for 800+ students and coordinated with faculty on grading standards and course objectives.
- Led weekly review sessions in R, supporting students on statistical concepts and applied data analysis.

LEADERSHIP EXPERIENCE

Publishing Chair, Undergraduate Women in Economics at Berkeley;
Academic Affairs Committee, Berkeley Undergraduate Economics Association **2022–2024**

RESEARCH AND AWARDS

Economics Undergraduate Senior Honors Thesis, University of California, Berkeley, CA **Aug 2023 - May 2024**

- Examined how language spoken at home affects immigrants' wages and social mobility, using Blinder-Oaxaca decomposition on American Community Survey data.
- Awarded Michael and Chris Boskin Scholarship (2024)

ADDITIONAL

- **Skills:** Python, SQL, PySpark, R, Stata, Databricks, Git, LaTeX, MATLAB, Excel, BeautifulSoup, Selenium
- **Methods:** Econometrics (fixed effects, difference-in-differences, decomposition), text classification with large language models, data validation and documentation, reproducible research
- **Language:** Native fluency in Cantonese and Mandarin, and conversational in Korean