JAIMIE CHIN

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EDUCATION

University of Washington, College of Engineering, Seattle, WA   September 2023 - June 2025
Master of Science in Human-Centered Design & Engineering

New York University, Steinhardt, Manhattan, NY   January 2020 - May 2023
Bachelor of Science in Applied Psychology, GPA: 3.69
Relevant Coursework: Qualitative & Quantitative Research Methods, Advanced Statistics for Behavioral Analysis

New York University, College of Arts & Science, Manhattan, NY   January 2020 - May 2023
Bachelor of Arts in Data Science, GPA: 3.47
Relevant Coursework: Data Management & Analysis, Causal Inference, Responsible Data Science, Intro to ML

PROFESSIONAL EXPERIENCE

Research Assistant, **SMART Beginnings Lab,** New York City, NY   January 2022 - Present
- Managed and organized data for research projects, using SQL, STATA, and SAS to clean, structure, and document data, resulting in a 25% reduction in data processing time
- Maintained 100% accurate records of interviews and ensured compliance with all confidentiality requirements, providing seamless access to 8 years of project documentation for key decision-makers and stakeholders
- Leveraged exceptional attention to detail and analytical prowess to conduct 10+ comprehensive literature reviews and derive strategic insights aligned with project objectives, guiding research initiatives

UX Designer, **Oppia Foundation**   May 2023 – February 2024
- Collaborated with a multidisciplinary team to enhance UX for Oppia, serving 10,000+ active users
- Utilized design thinking principles to ideate and create 20+ wireframes, mockups, and prototypes for new features
- Actively participated in design critiques, providing valuable insights to enhance the overall user experience

PROJECTS

UX Research & Designer, **Digi-Dubz at University of Washington,** Seattle, WA   September 2023 – December 2023
- Orchestrated quantitative research, designing a survey with a 25% increased response leading to data-driven decisions that positively impacted alumni engagement and fundraising efforts
- Developed a design system, grid, and UI elements, ensuring consistency and user-friendliness, contributing to a 10% increase in user satisfaction and usability metrics
- Led qualitative research efforts, moderating 4 interviews and leading thematic coding, resulting in actionable insights that informed project direction

Machine Learning: Predicting Coral Reef Bleaching Events, **NYU,** Manhattan, NY   April 2023 – May 2023
- Leveraged machine learning with a global dataset to predict coral bleaching, using sea surface temperature, cyclone frequency, and light scattering as environmental variables.
- Cleaned and preprocessed data, handling missing values and outliers, resulting in a dataset of 34,512 samples and 48 relevant features. Identified top 12 features using Mutual Information-Based Feature Selection Method
- Developed standalone models (Random Forest, Gradient Boosting, and Multi-Layer Perceptron) with hyperparameter tuning for improved performance. Created a stacked regressor model, achieving RMSE of 10.96 and R-squared of 0.70 on the test set

UX Research & Designer, **Sheepy at NYU,** Manhattan, NY   July 2022 - August 2022
- Surveyed 24 & interviewed 5 users to guide application design, categorize attitudes, and collect self-reported data on parental needs in creating bedtime routines
- Developed wireframes and prototypes to drive product development and perform usability testing, resulting in a System Usability Score of 85%

Fairness & Accuracy Analysis of a Machine Learning Model, **NYU,** Manhattan, NY   April 2022 - May 2022
- Evaluated an automated decision system (ADS) using a machine learning model for disparate impact based on protected characteristics (sex, age, race).
- Achieved 80% overall accuracy and 70-80% precision across diverse subpopulations, confirming ADS reliability
- Demonstrated ADS robustness with a jitter test, maintaining accuracy in noise up to 0.6 standard deviations
- Identified biases favoring privileged groups (females, younger individuals, higher-class passengers, higher fare prices) and quantified fairness disparities (statistical parity differences ranged from -0.04 to -0.24)

TECHNICAL SKILLS

Coding Languages & Programs: Python, R, SPSS, SAS, SQL, Java, HTML, CSS, JavaScript
Design: Figma, Penpot, Sketch, Adobe XD, Adobe After Effects
Research & Data Management: Qualtrics, Google Suite, Microsoft Office Suite (Word, Excel, PowerPoint)

CERTIFICATES

Social & Behavioral Research, CITI Program
GCP - Social and Behavioral Research Best Practices for Clinical Research, CITI Program