

GRACE SOOJIN CHONG

Work Authorization: US Citizen | [LinkedIn](#) | Washington, D.C.

EDUCATION

Northeastern University, Khoury College

Arlington, VA

M.S. in Computer Science, 4.0 GPA

Spring 2026

- Coursework: Algorithms, Natural Language Processing, Data Mining Techniques, Machine Learning

University of Southern California, Keck School of Medicine

Los Angeles, CA

B.S. in Global Health, minor in International Relations

May 2021

- USC Journal of Law and Society - Associate Editor
- Teaching Assistant for International Relations Department

SKILLS

Python (PyTorch, NumPy, pandas, TensorFlow, scikit-learn, matplotlib), C, Java, R, Git, Gradle, SQL, Microsoft Excel, SPSS, Qualtrics

EXPERIENCE

Northeastern University

Arlington, VA

Teaching Assistant

Sept 2024 - Dec 2024

- Responsible for grading & holding office hours for topics including proofs, discrete probability, an introduction to algorithms, and an introduction to graph theory

PHI Center for Health Leadership & Impact

Oakland, CA

Program Associate, AmeriCorps VISTA

Feb 2023 - 2024

- Contributed to survey design and responsible for cleaning and analyzing data as well as dashboard development on applicant demographics for novel workforce development program to communicate with over 30 funders and academic partners in California
- Responsible for contribution to quarterly reports on program statistics to funding organizations
- Developed original content and recruitment material for communications materials and informational webinars related to public health careers
- Conducted program development research based on existing literature and similar programs

Children's Hospital of Los Angeles (University of Southern California)

Los Angeles, CA

Research Assistant

Jan 2021 - May 2021

- Conducted systematic literature review on malnutrition evaluation and care practices for pediatric populations in intensive care units in the United States to inform development of new guidelines, educational materials, and supplemental applications for funding
- Analyzed electronic health records (Cerner) and built dashboards to communicate malnutrition rates in the hospital's pediatric critical care units as new care methodologies were implemented

The Security and Political Economy Lab (University of Southern California)

Los Angeles, CA

Research Assistant

May 2019 - Aug 2019

- Conducted literature review on "resource curse" theory (Ross 2004) including analysis of reliability of citations and replicability of methodology used in leading paper
- Developed qualitative code book to measure applications and relevance of resource curse theory in post-2004 domestic armed conflicts in order to conduct data analysis using R

Method Climbing
Project Manager

Newark, NJ
Jun 2021 - Nov 2021

- Successfully managed 7 unique full-cycle events to increase memberships (~80 members to ~300 members) and sales while efficiently collaborating across 3 different teams utilizing project management softwares (Notion, Asana) to meet appropriate deadlines in a 3-month period
- Managed 5 unique e-mail and social marketing campaigns to target prospect and current members with successful conversation to day passes and memberships utilizing e-mail marketing SaaS program Klaviyo and social media management service Later

Bass Chiropractic
Analyst & Medical Coder

West Hollywood, CA
Jul 2019 - Jan 2021

- Developed in-house insurance coding and billing system, including guidance around appeal of rejected medical claims on behalf of patients, improving accuracy of medical billing resulting in an increase of insurance reimbursements by over 300% in a calendar-year period
- Developed in-house guidelines of compliance processes, including the implementation of regular internal audits to ensure data protection of patients and clinic, reducing risk of violation
- Created automated dashboards for easy data visualization on financial performance and patient retention and oversaw daily data entry, allowing team to identify strengths and gaps and successfully implement appropriate marketing strategies raising quarterly revenue over 180% in one-year period
- Responsible for prior authorizations, verifying insurance benefits, appealing denied claims, and communicating insurance benefits and financing to patients

GRANTS

National Institute of Health PA-24-261 - Examining the Impact of Artificial Intelligence (AI) on Healthcare Safety (R18)

Proposal in Progress: Using Explainable AI & Neuro-symbolic techniques to Improve Mental Health & Patient Safety in Student Populations

Principal Investigators: Dr. Huihui Wang (Director of Computing Programs, Northeastern University), Dr. Idia Binitie Thurston (Associate Director of the Institute for Health Equity and Social Justice Research)

National Science Foundation Distributed Research Apprenticeships for Master's (2025)

Submitted for Review: Applying Neuro-symbolic Algorithms to Explain Process of Link Predictions in Knowledge Graphs for Health Outcomes to Improve Fairness

Advisors: Dr. Huihui Wang

National Science Foundation Graduate Research Fellowship Program 24-591

Submitted for Review: Using Neuro-symbolic AI to Address Bias and Health Equity Issues Using a Social Determinants of Health Framework

Advisors: Dr. Huihui Wang & Dr. Houbing Song (SONG Lab, University of Maryland-Baltimore County)

CERTIFICATIONS

CITI Program's Human Research: Data or Specimens Only Research (Credential ID 65950928)