

David H. Oh

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Work Experience

Supervisory Data Scientist (GS-1560-15) Apr 2023 to Present

Bureau of Labor Statistics (BLS), Washington D.C.

Oversee the operation of the data science branch within the Office of Compensation and Working Conditions (OCWC), applying the latest data science methods to improve the quality and scope of the statistics produced from the National Compensation Survey (NCS), the Occupational Requirements Survey (ORS), the Survey of Occupational Injuries and Illnesses (SOII), and the Census of Fatal Occupational Injuries (CFOI)

Data Scientist (GS-1560-14) Jan 2020 to Apr 2023

Bureau of Labor Statistics (BLS), Washington D.C.

Led multi-disciplinary teams on end-to-end development, maintenance, and implementation of multiple data science projects, including the SOII Autocoder and the Work Stoppages Environmental Scan

Economist (GS-0110-12) Jan 2017 to Jan 2020

Bureau of Labor Statistics (BLS), Washington D.C.

Reviewed and analyzed estimates on wages, benefits, and occupational requirements, looking for aberrations or other potential underlying data problems

Research Assistant Jun 2016 to Sep 2016

UT Austin Department of Economics, Austin, TX

Drafted a policy report on the state of dual credit program in Texas for a project sponsored jointly by the Laura and John Arnold Foundation and the Texas Education Agency (TEA)

Teaching Assistant Aug 2014 to May 2016

UT Austin Department of Economics, Austin, TX

Provided teaching assistance to various undergraduate courses in economics: Economic Statistics, International Trade and Investment, and Introduction to Labor Economics

Professional & Leadership Activities

Presentations

When Labels Become Obsolete: Updating the SOII Autocoder to OIICS v3.0 Apr 2023

Federal Computer Assisted Survey Information Collection (FedCASIC) Workshop, BLS

Automated Survey Coding at the Bureau of Labor Statistics Mar 2022

Guest Speaker for Fundamentals of Data Collection class, Joint Program in Survey Methodology (JPSM)

Challenges and Potential Benefits of Leveraging Task Data from the Occupational Requirements Survey Apr 2021

Federal Computer Assisted Survey Information Collection (FedCASIC) Workshop, BLS

Rapid Implementation of Research Design Using Python Sep 2019

Government Advances in Statistical Programming (GASP) Workshop, BLS

Predicting Missing Levels Using Supervised Machine Learning Apr 2019

Federal Computer Assisted Survey Information Collection (FedCASIC) Workshop, BLS

Services

Chair & Member, BLS Innovation Board Oct 2019 to Present

Project Sponsor, Coding it Forward Civic Digital Fellowship Jun 2022 to Aug 2022

Course Instructor, Basic Statistical Analysis Feb 2018 to Sep 2022

Member, NCORS Research Steering Group Feb 2022 to Present

Agency Coordinator, ICSP Mentoring Program Jan 2020 to Oct 2021

Mentorships

Mentor , U.S. DOL Pathways Programa Loayza	Oct 2020 to Aug 2022
Mentee , ICSP Mentoring Program, Mentor	Mar 2019 to Sep 2019
Mentee , U.S. DOL Pathways Program	Jan 2017 to Dec 2017

Education

The University of Texas at Austin, Austin, TX

Master of Science in Economics	May 2016
Bachelor of Science in Mathematics with Specialization in Statistics, Probability, and Data Analysis	May 2014
Bachelor of Arts in Economics, Sociology, and International Relations and Global Studies	May 2014

Relevant Skills & Certifications

Programming Languages & Systems

Python (*Jupyter Notebook, Google Colab, AWS SageMaker, VS Code*), **SQL**, **Git**, **Linux** (*RHEL*), **SAS**, **Stata**

Skills

Machine learning (*Huggingface, PyTorch, Scikit-learn*), **NLP** (*NLTK, SpaCy, Gensim*), **Data analysis** (*Pandas, NumPy, Matplotlib, Plotly*), **Web application development** (*Streamlit*), **Survey and sample design**, **Causal inference**, **A/B testing**

Certifications

Deep Learning Specialization , DeepLearning.AI on Coursera	Jun 2022
IBM Data Science Professional Specialization , IBM on Coursera	Aug 2020
Machine Learning , Stanford University on Coursera	Sep 2019

Honors & Awards

BLS Innovation Award , Bureau of Labor Statistics	2020
DOL Secretary's Exceptional Achievement Award , U.S. Department of Labor	2019
Graduated with University Honors , Liberal Arts Honors , and Departmental Honors	2014
One of twelve College of Liberal Arts Dean's Distinguished Graduates , UT Austin	2014
Daniel Hamermesh Thesis Prize in Economics , UT Austin Department of Economics	2014