

# David H. Oh

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## Work Experience

**Supervisory Data Scientist (GS-1560-15, Full-time: 40 hours/week)**, Supervisor: Nicole Nestoriak..... **Apr 2023 to Present**

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

Oversee the operation of the Data Science Branch (DSB) 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, Full-time: 40 hours/week)**, Supervisor: Nicole Nestoriak .....**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, Full-time: 40 hours/week)**, Supervisor: Mike Lettau ..... **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 (Part-time: 20 hours/week)**, Supervisor: Richard Murphy ..... **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 (Part-time: 20 hours/week)**..... **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

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## Professional & Leadership Activities

Presentations

**Current Scope of AI Implementations at BLS** ..... **May 2024**

*AI Day for Federal Statistics, Committee on National Statistics (CNSTAT) Public Event*

**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 2022/2024**

*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 Sep 2023**

**Course Instructor**, Basic Statistical Analysis ..... **Feb 2018 to Sep 2022**

**Agency Coordinator**, ICSP Mentoring Program..... **Jan 2020 to Oct 2021**

## Mentorships

<b>Mentor</b> , U.S. DOL Pathways Program .....	<b>Oct 2020 to Aug 2022</b>
<b>Mentee</b> , ICSP Mentoring Program.....	<b>Mar 2019 to Sep 2019</b>
<b>Mentee</b> , U.S. DOL Pathways Program .....	<b>Jan 2017 to Dec 2017</b>

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## Education

The University of Texas at Austin, Austin, TX

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

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## Relevant Skills & Certifications

Programming Languages & Systems

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

Skills

**Machine learning** (*Hugging Face, 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

<b>Natural Language Processing Specialization</b> , DeepLearning.AI on Coursera .....	<b>Jul 2023</b>
<b>Deep Learning Specialization</b> , DeepLearning.AI on Coursera.....	<b>Jun 2022</b>
<b>IBM Data Science Professional Specialization</b> , IBM on Coursera .....	<b>Aug 2020</b>
<b>Machine Learning</b> , Stanford University on Coursera .....	<b>Sep 2019</b>

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## Honors & Awards

<b>DOL Secretary's Gears of Government Award</b> , U.S. Department of Labor .....	<b>2024</b>
<b>DOL Secretary's Excellence in Leadership Award</b> , U.S. Department of Labor .....	<b>2023</b>
<b>BLS Innovation Award</b> , Bureau of Labor Statistics .....	<b>2020</b>
<b>DOL Secretary's Exceptional Achievement Award</b> , U.S. Department of Labor.....	<b>2019</b>
Graduated with <b>University Honors</b> , <b>Liberal Arts Honors</b> , and <b>Departmental Honors</b> .....	<b>2014</b>
One of twelve <b>College of Liberal Arts Dean's Distinguished Graduates</b> , UT Austin .....	<b>2014</b>
<b>Daniel Hamermesh Thesis Prize in Economics</b> , UT Austin Department of Economics.....	<b>2014</b>