

WEIQI LI

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EDUCATION	M.S. in Statistics Oregon State University GPA 4.0/4.0, First Place in Comprehensive Exams	Jun 2026 Corvallis, OR, USA
	B.S. in Business Administration Babson College GPA 4.0/4.0, Valedictorian of Class 2021	Jun 2021 Boston, MA, USA
	General Course Exchange Program London School of Economics First Class Honors (on all courses)	Sep 2019 – May 2020 London, UK
SELECTED COURSEWORK	Mathematics Real Analysis (A+), Linear Algebra, Probability, Distribution Theory & Inference Statistics Statistical Genomics, Bayesian Inference, Generalized Regression Models, Probability, Computing and Simulation in Statistics, Sampling Methods, Theory of Statistics (3-course sequence), Statistical Methods (3-course sequence), Statistical Consulting Practicum Machine Learning Deep Learning, LLM/NLP with Deep Learning, Computer Vision, Multivariate Data Analysis, Machine Learning with Python Computer Science Introduction to Computer Science with Java (2-course sequence) Academic projects Bayesian hierarchical modeling with RStan; AdaBoost simulation study	
PUBLICATIONS	Weiqi Li , Xinzhou Ge*, Yuan Jiang*. <i>Benchmarking Cell-Type-Specific Spatially Variable Gene Identification Methods for Spatial Transcriptomics Data</i> . Preprint, bioRxiv, 2025. Weiqi Li , Fuxin Li, Xinzhou Ge, Yuan Jiang*. <i>Reframing Spatial Transcriptomics Prediction: From Regression to Classification with Swin Transformer</i> . Manuscript submitted to ENAR Distinguished Student Paper Award Competition, 2026.	
TALKS & PRESENTATIONS	College of Science Graduate Research Showcase, Oregon State University , 2025. Presentation & Poster: “Reframing Spatial Transcriptomics Prediction: From Regression to Classification Using Swin Transformer”	
RESEARCH EXPERIENCE	Spatially Resolved Transcriptomics Inference, Independent Reading Group Oregon State University Mentored by Dr. Yuan Jiang and Dr. Xinzhou Ge Apr 2025 – Now <ul style="list-style-type: none">Initiated and organized a faculty-mentored reading group on computational methods for spatial transcriptomics.Selected and presented key literature on spatially variable gene detection, cell type deconvolution, cell-cell communication, and deep learning applications.Conducted investigation of post-selection inference bias in spatially variable gene methods, surveying candidate statistical solutions and assessing applicability. Reference-Free Cell Type Annotation, Independent Research Oregon State University Mentored by Dr. Stefan Lee Apr 2025 – Jun 2025 <ul style="list-style-type: none">Conducted independent research project, resulting in draft manuscript “CASTLE: Cell Annotation in Spatial Transcriptomics through Learned Embedding Clustering.”	

- Integrated multimodal data extracted by pretrained vision model DINov2 and language model Geneformer within a deep embedding clustering (DEC) framework.
- Achieved improved cluster separation, with significantly higher Silhouette scores compared to baseline annotations derived from raw gene expression clustering.

Airline Company Fuel Option Investment, Research Assistant

Babson College | Supervised by Dr. Jerome Taillard | Sep 2018 – Sep 2019

- Built R web-scraper to automatically download 10-K filings from SEC websites, creating a large-scale dataset of over 100 company annual reports.
- Automated data pipeline in R, including extraction, cleaning, and visualization for cross-sectional trend analysis.

HONORS & AWARDS

Scholarships

Seely Award

Nov 2025

Sole recipient, awarded for highest performance in comprehensive exams

Wei Family Private Foundation Scholarship

Sep 2024 – Jun 2026

Ruth Kruger Statistics Scholarship

Sep 2024

Carroll W. Ford Valedictorian Scholarship

May 2021

Dean's Scholarship, Honors Program Scholarship

Sep 2017 – Jun 2021

Data Competitions

Cambridge University Aviva Data Science Competition 1st Place (Python NLP)

Mar 2020

Industry Recognition

TikTok FY23 Long-Term Contribution Award

Dec 2023

Alibaba Best Analysis Report Presentation Award

Oct 2022

Alibaba FY22 Best New Data Analyst (sole recipient, Cainiao Business Unit)

Apr 2022

INDUSTRY EXPERIENCE

TikTok – TikTok Shop

Senior Data Analyst

Hangzhou, Zhejiang, China

Oct 2022 – Jul 2024

- **Data Leadership:** Lead supply chain analyst for TikTok 2023 Global Black Friday; opened daily cross-departmental briefings with data insights, setting agenda for 200+ stakeholders.
- **End to End Data Pipeline:** Defined data requirements and drove discussions across data engineers, product managers, product development and algorithm teams to deliver results.
- **Project Management:** Led data product development for the launch of warehouse systems with 60M+ pieces in storage; presented analyses to senior management on key strategies including freight pricing, manpower efficiency, and leadtime reduction.

Alibaba – Cainiao Networks

Hangzhou, Zhejiang, China

Business Intelligence Analyst

Aug 2021 – Oct 2022

- **HPC & Big Data:** Worked daily with HPC clusters and cloud databases including Flink real time and Hadoop batched synchronized datasets that grow by millions of records per day.
- **Data Infrastructure:** Collaborated with data engineers to design database schemas from detail tables to different levels of aggregations and set refresh frequencies for scalable analytics.
- **Operation Analysis:** Built quantitative models that doubled warehouse savings without new capital investment; facilitated optimization execution via dashboards.

Wayfair

Business Analyst Intern

Boston, MA, USA

June 2019 – Aug 2019

- **Automation:** Built SQL-embedded R scripts to monitor carrier-lane performance; automated reporting that led to transit time optimization on 22 lanes.
- **Data Product:** Developed R Shiny dashboards to visualize and download deviation metrics.

TEACHING

Oregon State University

Teaching Assistant

- ST 351 Introduction to Statistical Methods I Fall 2024
- ST 352 Introduction to Statistical Methods II Winter 2024
- ST 412/512 Methods of Data Analysis II Spring 2025
- ST 411/511 Methods of Data Analysis I Fall 2025

Course Development Assistant

- DS 231 Introduction to Python Programming Summer 2025

Babson College

Lead Peer Tutor

- Principles of Microeconomics, Principles of Macroeconomics Summer 2018 – Summer 2019

Summer Study Mentor

- Babson Summer Study for High School Students Summer 2018

VOLUNTEER & OUTREACH

Alibaba 3 Hours for Charity (Road cleaning, nursery home visits)

Aug 2021 – Oct 2022

Volunteer Income Tax Assistance (IRS Certified)

Aug 2018 – April 2019

Volunteer Accounting Intern, Cradles to Crayons

Jun 2018 – Aug 2018

SKILLS

Programming Languages | R, Python, SQL, LaTeX, Java, SAS, HTML, CSS, Bash

Tools and Frameworks | Git, Slurm, Conda, PyTorch, TensorFlow, NumPy

Languages | Chinese (Native), English (Fluent, TOEFL 120)