

WEIQI LI

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[Personal Website](#)

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

May 2021
Boston, MA, USA

General Course Exchange Program

London School of Economics
First-Class Honours (on all courses)

Sep 2019 – Aug 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

Weiqli Li, Xinzhou Ge*, Yuan Jiang*. *Benchmarking Cell-Type-Specific Spatially Variable Gene Detection Methods Using a Realistic and Decomposable Simulation Framework*. Preprint, bioRxiv, 2025. Target journal: Nature Communications. [[Link](#)].

Weiqli Li, Fuxin Li, Xinzhou Ge, Yuan Jiang*. *Reframing Spatial Transcriptomics Prediction: From Regression to Classification with Swin Transformer*. Manuscript submitted to ENAR Distinguished Student Paper Award Competition, 2026. [[Link](#)].

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

- Initiated 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

- Conducted independent research project, resulting in draft manuscript “CASTLE: Cell Annotation in Spatial Transcriptomics through Learned Embedding Clustering.” [\[Link\]](#).
- 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 and visualization for cross-sectional trend analysis.

HONORS & AWARDS

Scholarships

Seely Award	Nov 2025
<i>Sole recipient, awarded for highest performance in comprehensive exams</i>	
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 2018 – Jun 2021

Data Competitions

Cambridge University Aviva Data Science Competition 1st Place (Python NLP)	Mar 2020
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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

Hangzhou, Zhejiang, China

Senior Data Analyst

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 batch-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

Boston, MA, USA

Business Analyst Intern

Jun 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 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)