

EDUCATION

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**University of Wisconsin Madison**

Madison, WI

- *Bachelor of Science, Data Science and Economics; GPA: 3.82*  
*Minor: Computer Science*

*Sep. 2018 – Jun. 2022*EXPERIENCE

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**UW-Madison Statistics Learning Center**

Madison, WI

*Stat 240 Introduction To Data Modeling I Peer Mentor**Sep 2021 - Present*

- **Training:** Attended the Statistics Learning Center Training and the UW-Madison Tutor Development Conference
- **Mentoring:** Helping students learn by guiding them through problem-solving process in online drop-in office hours

**UW-Madison Department of Computer Science**

Madison, WI

*CS 220 Data Programming I Peer Mentor**Jan 2021 - Present*

- **Mentoring:** Holding office hours to help students with labs/projects or troubleshoot general coding issues
- **Teaching:** Leading lab section to go through lab code or assisting TA to address student inquiries
- **Quiz Design:** Designing weekly quiz questions for course through collaboration in a team of 3

**Wisconsin Science and Computing Emerging Research Stars (WISCERS)**

Madison, WI

*research fellow**Feb 2021 - Present*

- **Apply:** Selected from over 90 applicants to participate in CS newly launched [research mentorship program](#)
- **Research:** Involved in mentoring activities and research projects with matched faculty [Prof. Vivak Patel](#) and graduate mentor [Liam Johnston](#); researched about optimization of conventional backpropagation method to mitigate adjoint decay/explosion seen in recurrent neural network training through a trainable penalty on adjoints
- **Results:** (1) Wrote Design of Experiments (DOE) report periodically with text, graph, and tables that contained thoughts and findings (2) Tested the validity of method on a variety of synthetic or real-world datasets and provided coding support to network training and others

**Jiangyun Intelligence Ltd.**

Remote, China

*machine learning intern**Feb 2021 - May 2021*

- **Duties:** Applied computer vision algorithms on real-world industry datasets, including tasks like classification, semantic segmentation, and defect detection

**UW-Madison Department of Economics**

Madison, WI

*LEAD@econ Mentor**Feb 2021 - May 2021*

- **Mentoring:** Selected to support a freshman mentee by providing career/academic/life advice/resources
- **Training:** Engaged in monthly leadership training with over 50 students to grow personally and professionally

*EconEx Research and Data Analysis Extern**Summer 2020*

- **Apply:** Selected for independent research project performing data analysis of Covid-19 situation in New York
- **Training:** Completed over 15 hours of training on data analysis tools (LinkedIn) and collaborated with the mentor
- **Results:** Created data visualization using Python & Excel and presented findings of Covid impact on consumer & retail trends in NYC

PROJECTS

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- **Customer Churn prediction in Telecommunication industry:** Developed algorithms for Telecommunication customer churn prediction based on labeled data from Kaggle via Python programming; Evaluated model performance (80.6% accuracy, 65.8% precision, 55.7% recall, 83.3% AUC score for LR) via GridSearch (K-fold cross validation) and selected top features influencing customer retention [added: later obtained 80.2% accuracy on first try with linear classification neural network algorithm]
- **2020 Data Challenge:** Designed a machine learning model for heart failure prediction; Collaborated with UW-Madison student Shaonan Wang; Completed an analysis report and presented to professors at the end

PROGRAMMING SKILLS

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- **Languages:** Python, Java, R, SQL, LaTeX, HTML

**Technologies:** TensorFlow, PyTorch