

Tianle (Steven) Chen

501 N Henry St | Madison, WI, 53703 | tchen433@wisc.edu | +1(608)949-2850 |
<https://www.linkedin.com/in/steventlchen/>

EDUCATION

University of Wisconsin-Madison

Madison, WI

Bachelor of Science: **Mathematics, Statistics**

September 2021-May 2025

- GPA: **3.88/4.0**, Honors: **Dean's List** for 3 Semesters
- Relevant Previous Coursework: Linear Algebra, Theory of Single Variable Calculus, Probability Theory, Abstract Algebra, R/Java/Python Programming, Regression, etc.
- Relevant Current Coursework: Statistical Inference, Statistics Experimental Design, Combinatorics, Real Analysis.

PROJECTS

Algebra/Probability (Directed Reading Program)

Madison, WI

Participant

February 2024 – Present

- Engage in an exploration of advanced mathematical concepts under the guidance of graduate student mentor, Sam McKeown
- Receive personalized one-on-one mentoring sessions focusing on the textbook "Lectures on the Combinatorics of Free Probability"
- Acquire knowledge beyond the standard curriculum, delving into intriguing areas of algebra and probability
- Gain foundational background material essential for future reading courses or potential research projects

Stars and Planets Data Analyzation

Madison, WI

Group Project

November 2023

- Used Python and Jupyter Notebook to set up the data frame from diverse JSON and CSV files
- Developed a function to manage missing data within the dataset
- Extracted useful information from the dataset, organizing it into lists and tuples for analysis preparation
- Created graphs such as scatter plots and pie charts for data visualization
- Identified potential habitable planets for human exploration by leveraging existing data and implemented different astrophysical formulas to predict characteristics of stars/planets, etc.

Regression Model Design for Human Bodyfat Prediction

Madison, WI

Group Project supervised by Prof. Kang

September 2023 – November 2023

- Imported dataset(CSV) into RStudio, employing techniques in R, including Cook's distance, influential/leverage point, and IQR analysis, to clean outliers and refine data entries for optimal accuracy
- Assessed the dataset's normality, homoskedasticity, and linearity assumptions using tools such as qqplot and residual plot
- Applied a systematic approach to regression model exploration, experimenting with both Simple Linear Regression (SLR) and Multiple Linear Regressions (MLRs)
- Conducted literature review to identify and incorporate predictors that balance robust prediction capabilities with simplicity for practical daily use
- Performed F-test to evaluate and compare different sets of regression models to select the most effective models for accurate predictions
- Achieved a high-performing final model with an impressive R-square exceeding 0.7 and a minimal Root Mean Square Error (RMSE) of 4.08

Wordle Game

Madison, WI

Individual Project

May 2022

- Utilized Java programming language in IntelliJ to develop a Beginner-level wordle game
- Implemented techniques including ArrayList management, pseudorandom number generation, and robust error-handling mechanisms to guarantee seamless user interaction and error-free gameplay experience

PROFESSIONAL&ON-CAMPUS EXPERIENCE

China CITIC Bank

Hangzhou, China

Assistant Account Manager

July 2023 – August 2023

- Collaborated with the Account Manager to learn about corporate banking operations
- Got familiar with client relationship management and negotiation strategies while assisting in managing accounts for large corporate clients

China Mobile Sichuan Corp.

Chengdu, China

Marketing Analyst

May 2023 – June 2023

- Assisted in analyzing carrier service marketing data, focusing on personal cellular phone plans, utilizing advanced Microsoft Excel techniques to extract actionable insights
- Conducted data analysis to identify market trends, customer preferences, and pricing strategies, enabling informed decision-making in optimizing personal cellular phone plans to maximize customer interest and satisfaction
- Collaborated with cross-functional teams to implement price adjustments and promotional campaigns based on data-driven recommendations

Burkard Lab, UW-Madison Department of Medicine

Madison, WI

Student Lab Support

January 2023 – May 2023

- Maintained the functioning of Burkard Lab by providing support to lab operations
- Gained hands-on experience in various general lab techniques, including autoclaving, restocking materials for breast cancer research, and preparing chemical solutions and buffers

UnityPoint-Meriter

Madison, WI

Clinical Shadowing Experience

October 2022 – December 2022

- Shadowed a UW-Health Professor specializing in Colon & Rectum surgery
- Participated in clinical settings, closely observing and assisting the surgeon during patient consultations, learning effective communication skills with patients, physicians, and rotating medical students

McBurney Disability Resource Center, UW-Madison

Madison, WI

Notetaker

June 2022 – July 2022

- Provided notetaking support for the History 130 course during the summer session, catering to the needs of students with learning disabilities
- Mastered advanced techniques within Windows Word to format and enhance notes, adhering to specific guidelines to optimize readability and utility for students with diverse learning needs

ADDITIONAL INFORMATION

Technical: Beginner: Python, SQL, HTML, Java, VB/VBScript; Intermediate: R/RStudio, LaTeX; Advanced: Microsoft Office

Certificate: Basic Life Support Provider (eCard Code: 235411670163, American Heart Association, Dec 2022-Dec 2024)

Languages: Chinese (Native), English (Advanced), German (Beginner)