

ZIROU ZHOU

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PROFESSIONAL SUMMARY

- Over 5 years of experience in mathematics and statistics theoretical and applicational research.
- Published 2 manuscripts in peer-reviewed journals.
- Directed technical and scientific consulting for industry and academia.

TECHNICAL SKILLS

- Database Management: SQL (MySQL, MS Access, SQL server), Oracle, R (Tidyverse).
- Statistic Languages: Expert Excel (VLOOKUP, SORT, FILTER, COUNTIF), R, SAS, Python.
- Data Visualize Tools: Power BI, Tableau, R (ggplot).
- Data Scientist: Bayesian Analysis, Deep ML, EM algorithm, Non-parametric Regression.

EDUCATION

Iowa State University (ISU), Ames, IA	August 2021 - Present
Ph.D. in Statistics	
Iowa State University (ISU), Ames, IA	August 2018 – June 2021
M.S. in Statistics	
Iowa State University (ISU), Ames, IA	August 2012 - May 2017
B.S. in Statistics	

PROFESSIONAL EXPERIENCE

Test Department, ZTE, Remoted/Basking Bridge, NJ	September 2021 – January 2022
Data Analysis	
<ul style="list-style-type: none">• An internship position to test the handsets with different builds, including smartphone and smart watches.• Visualize the data got from voice log and produce reports for the improvements from each build.• Utilized MS SQL, Tableau, and other dashboard/visualization tools for data analysis and intelligence.• Tested and reported more than one builds each week, received satisfied comments from the supervisors and efficiently communicated with people in different time zone s	

ACADEMIC PROJECT

Department of Ecology, Evolution, and Organismal Biology (EEOB),	August 2021 - November 2021
Iowa State University, Ames, IA	
Research Assistance	
<ul style="list-style-type: none">• A research position for the final report about the water quality effected by Fertilizer.• Clean up the database collected from different Des Moines River coastal Monitoring stations.• Using EXECL in data structuring and by VLOOKUP and FILTER combining columns from several sheets and using R in visualizing the reports data on map with assistance from Dr Hoffman.• Finished the first draft with collaboration from Dr Lu's post doctors and made improvements under Dr Lu's advising. The final report has been submitted.	
Economic Department, Iowa State University, Ames, IA	August 2020 - May 2021
Research Assistance	

- A research position for the final report about the economic influence coming from the goods' import and exports.
- Clean up the database about the import and export catalogue.
- Using the SQL and EXECL in data structuring and by VLOOKUP and FILTER combining columns from several sheets.
- Finished the first draft in 3 weeks and made improvements under Dr Zhang's advising. The final report will be post soon.

Statistics Department, Iowa State University, Ames, IA

August 2018 - June 2021

Research Assistance

- A research position to assist my major professor and finish my thesis.
- Simulate data and generate graph for the technical manuscripts for publication in peer-reviewed journals.
- Using the R package ggplot and Tidyverse for plots and combining with the MATLAB for the regression estimation.
- Finished my master thesis and the results will be used in my major professor's next article.

Mathematic Department, Iowa State University, Ames, IA

August 2016 - May 2018

Volunteer Researcher

- A research position to get used to research and be familiar with the stochastic processes.
- Theoretical analysis about stochastic processing and Assistant with proof and manuscripts writing.
- *Relative growth of the partial sums of certain random Fibonacci-like sequences* Journal of Difference Equations and Applications, Volume 23, 2017 - Issue 12 (2017)
- A. Roitershtein and Z. Zhou, *Distribution tails of history-dependent random linear recursions*, to appear in *Stochastic Models*. <https://doi.org/10.1080/15326349.2021.2003712>