Shengjie Niu

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EDUCATION BACKGROUND

Southern University of Science and Technology (SUSTech)

Guangdong, China

Statistics Major - GPA: 3.78/4.0

Sept. 2019 - Jun. 2023 (Expected)

Academic tutor: Prof. Qiman Shao

Main Courses: Bayesian Statistic, Multiply Statistic Analysis, Introduction to Theoretical and Practical Big Data, Statistical Linear Model, Applied Stochastic Process, Probability Theory, Mathematical Statistics, Computational Statistics, Discrete Mathematics, Time Series Analysis, Ordinary Differential Equation, Sampling Survey, Statistic Computation and Software, Statistical Data Analysis with SAS, Computer Programming (Java), etc.

ACADEMIC EXPERIENCE

Semi-Supervised Learning for Image Classification

Elite Programme of SUSTech

Jun. 2022 - present

- Supervisor: Prof. Chao Wang
- Outstanding both in total grades and the selection competition to join this programme.
- Discussed with the supervisor the latest papers on semi-supervised learning and image segmentation.
- Proposed innovative semi-supervised learning framework Density-based Spatial Outlier Detection (DSOD).

Data Science Program

North Carolina State University (remote)

Grade of project: 100/100

Ian. 2022

- Utilized Python, R, and Tableau tools to realize data analysis, modeling, and visualization.
- Utilized long short-term memory (LSTM) and time series to analyse two stocks and predict the future return.

Reinforcement Learning Seminar

SUSTech

Supervisor: Prof. Bingyi Jing

Jun. 2021 - Aug. 2021

- Discussed the markov decision process and some tabular methods: Dynamic Programming, Monte Carlo Methods, Temporal-Difference Learning and n-step Bootstrapping.
- Served as the keynote speaker for three seminars: Monte Carlo Algorithm, Planing and Learning with Tabular Methods, Heuristic Search and Monte Carlo Tree Search (MCTS).

Computational Statistics Seminar

SUSTech

Supervisor: Prof. Guoliang Tian

Sept. 2021 - Dec. 2021

- Got familiar with the EM-Type Algorithms: The EM Algorithm, MCEM Algorithm, ECM Algorithm, EM Gradient Algorithm and OLS Algorithm.
- Discussed the quadratic lower–bound (QLB) Algorithms and some applications.

Discrete Mathematics

SUSTech

Student Assistant

Sept. 2021 - Dec. 2021

- Detected errors in the assignment, answered questions for the students, which accumulated experiences in communicating with teacher and students.
- Participated in the project on how to solve linear recurrence relations in the language of linear algebra.

SKILLS & INTERESTS

- Computer Languages: Python, R, Java, SAS, etc.
- Tools: Jupyter notebook, LaTex, R studio, Pycharm, VS code, Anaconda, etc.
- Interests: Statistical Machine Learning, Semi-supervised Learning for Image Classification, Reinforcement Learning.

AWARDS & ACHIEVEMENTS

Outstanding student scholarship (SUSTech)	Oct. 2022
Honorable Mention of Mathematical Contest In Modeling	Apr. 2022

• Third Prize of Guangdong Province in National Mathematics Competition

Nov. 2021

Oct. 2021

• Outstanding student scholarship (SUSTech)

• Outstanding student scholarship (SUSTech) Oct. 2020