HANBIN LIU

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EDUCATION

Southern University of Science and Technology(SUSTech), Shenzhen   *Sep 2019-Present*
Junior Undergraduate   Major in Statistics, Department of Statistics and Data Science
- GPA: 3.87/4.00   Ranking: 2/41(top5%)
- Core courses: Probability Theory(100), Mathematical Statistics(100)

SKILLS

R, Python, MATLAB, Java, LaTeX

RESEARCH EXPERIENCE

Prof. Guo-Liang Tian's Group(Computational Statistics)   *Sep 2021- Present*
Department of Statistics and Data Science, SUSTech   *Shenzhen, China*
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Prof. Jicong Fan's Group(Computer Vision)   *Jul 2021- Sep 2021*
Research Intern, School of Data Science, CUHK-Shenzhen   *Shenzhen, China*
- Deriving the kernel version of Selective Sampling-based Scalable Sparse Subspace Clustering for non-linear cases.
- Solving LASSO problems in our research by using the cyclic coordinate descent method.

Prof. Alice Cheng's Group(Content Analysis)   *Jul 2021-Aug 2021*
Research Intern(Remote), Department of Communication, NC State University   *NC, U.S.A*
- Using content analysis to research COVID-19 hot issues and agenda building in China.
- Examing the reliability by calculating coefficients like Scott's Pi, Cohen's Kappa, and Krippendorff's alpha.

PROJECT& SEMINAR

Data Mining Applications in DC Crime(Supervisor: Prof. Zhen Zhang)   *Spring 2021*
- Data statistics and data visualization, including data preprocessing, visualization, correlation analysis and analysis of crimes over geography and time.
- Classification & Clustering: classify(cluster) the geography by the crime events.
- Predicting the number of crimes in the future and using PCA to reduce dimensionality.

Self-contained Report on Discrete Math(Supervisor: Prof. Qi Wang)   *Fall 2020*
- Stating the methods of solving linear recurrence relations in the language of linear algebra.
- Report: https://hanbin-liu.github.io/linear-recurrence-report/

AWARDS & HONORS

- The 12th Chinese Mathematics Competitions(Provincial Fisrt Prize)   *Dec 2020*
- China National Encouragement Scholarship   *Nov 2020, 2021*

OTHERS

· GitHub: https://github.com/Hanbin-Liu