

JIawei YANG

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University of Science and Technology of China, 96 Jinzhai Road - 230026 Hefei - P.R.China

EDUCATION

No.1 Middle School Affected to CCNU

Aug.2019-June.2021

University of Science and Technology of China
Special Class for the Gifted Young

Aug.2021-Present

- **Major:** Statistics
- **GPA:** 3.74/4.3, ranking: 3/12 (in students majoring in statistics at Special School for the Gifted Young)

ACADEMIC INTEREST

Robust Estimation & Outlier Detection, 3-D imaging, Application of Statistics in Social Sciences

HONORS AND AWARDS

- **Outstanding Freshman Scholarship** Sep.2021
- **Cyrus Tang Scholarship** Apr.2022
- **Outstanding Student Silver Award** Oct.2022
- **Cyrus Tang Scholarship** Apr.2023

RESEARCH EXPERIENCES

Research on the Distribution Characteristics of Chinese Dialect Tones Collect Chinese dialect data and geographical data. Construct Language clustering based on distance matrix. Propose linguistic evolution hypotheses from linguistic insights on the simultaneous evolution of tone and phoneme. Establish measurement methods and hypothesis testing experiments, and verify the hypothesis. Under the guidance of Jiahong Yuan, who used to work at Linguistic Data Consortium, Upenn until 2018 and is now a professor of USTC.

Robust SE(d) Group Synchronization via Cycle-Edge Message Passing In 2024 summer I worked under the supervision of Prof Yunpeng Shi at UC Davis, focusing on robust SE(d) group synchronization algorithm, which has potential application in image alignment, cryo electron microscopy, SfM and so on. We use a novel idea to adapt CEMP algorithm on compact groups to make it able to estimate the corruption levels of SE(d) group ratios. I accomplished both main theoretical proof and numerical experiments. Our method significantly outperforms other state-of-the-art methods in SE(d) synchronization under highly corrupted data. We are working on a paper now and plan to contribute it to one of the top journals such as the Journal of machine Learning Research. draft will be put on my personal homepage: <https://jiawei-yang05.github.io>

EXTRA-CURRICULAR ACTIVITIES

- Preside over the compilation of Students Literature Association Journal.
- Write. Mostly poetry and fiction. Work appears in college print.
- volunteering in disabled children care, education services in Hefei.

LEADERSHIP

- **President of Students Literature association.**
- **Vice monitor of the School of Gifted Young, class 2.**

SKILLS AND OTHERS

Programming C, R, Python, Latex, Matlab