

俞子逸 Ziyi Yu

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EDUCATION

ShanghaiTech University

Computer Science and Technology Undergraduate

Pudong, Shanghai

2018/9 – now

GRADE AND HONOR

Grade:

- GPA: 3.75/4
- Rank: 9/253 3.56%
- CET4: 595
- CET6: 577

Honor:

- 2019 Excellent student of STU
- 2020 Merit student of STU
- 2019, 2020 Second Scholarship of STU
- 2021 Provincial 2nd Prize of Lan Qiao Cup

RESEARCH

Join Prof. Yuanming Shi's Group since 2020/9, successfully reproduced several papers

High Dimensional Channel Estimation Using Deep Generative Networks | *Python, Matlab*

2020/9

- Construct and train a GAN to learn channel distribution
- Channel estimation via GAN based on compressed sensing

Blind demixing: Convex and Nonconvex Methods | *Matlab*

2020/11 – 2020/12

- Convex relaxation method guarantees the statistical optimality of the solution to Blind Demixing problem
- Nonconvex optimization method give rise to the computing efficiency of solving Blind Demixing problem
- Verify that nonconvex optimization gives an accurate approximation to the solution of convex relaxation

Supervised Learning Under Distributed Features | *Python*

2021/2 – 2021/3

- Decentralized vertical federated learning
- Iteratively solve the problem using SGD
- Optimize the algorithm via dynamic diffusion, variance-reduction and pipeline

PROJECTS

Longan Nano Game | *C, RISC-V*

2020/6

- Implement a Retro Snake game on Longan Nano

Tetrahedralized Volume Rendering | *C++*

2020/6 – 2020/7

- Volume rendering based on tetrahedral meshes

Primal Simplex Solver | *Python*

2021/1

- Linear Programming solver based on primal classical & revised simplex method

Chinese Input Method based on Hidden Markov Model | *Python*

2021/1

- A 3-stage Chinese Input Method based on HMM

OTHERS

Teacher's Assistant of Computer Architecture

2021/2 – now

More than 10 times voluntary experience

2018/9 – now