Yu-Zhe Shi 师宇哲

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Education

Huazhong University of Science and Technology — Wuhan, China
ACM Honored Class in Computer Science, Supervised by Prof. Hai Jin — *Sept. 2018 –*

Research

Reciprocative Research on Machine Learning and Cognitive Science

Working with Prof. Wang-Zhou Dai at Imperial College London — *Feb. 2020 –*

- I am working on Novel Object Invention and New Concept Invention via Abductive Learning.
- I proposed a method to learn successive relation and visual represention of integers jointly in a dynamic environment and the open world.

Research on Visual Object Tracking

Working with Prof. Yi-Ping Pheobe Chen at Queensland University — *Sept. 2019 – Feb. 2020*

- I worked on visual object tracking and finished a research paper as co-author (Zikai Song, **Yu-Zhe Shi**, Shenyuan Gao, Junqing Yu, Yi-Ping Pheobe Chen, *Comprehensive Study on Visual Object Tracking under Explosion of Deep Learning: Survey and Experiments*). The paper is under review.
- Having learned the limitations of deep learning, I decided to persuit for intelligence which is more general, reliable and comprehensible.

Research on Cognitive Knowledge Comprehensibility

Working with Prof. Jiawan Zhang at Tianjin University — *July 2019 – Aug. 2019*

- I worked on Knowledge Visualization and made an rough investigation into how different data visualization strategies influence people's decision.
- This was my initial exposure to concepts like Knowledge Comprehensibility, Human Cognition and Human-Centered Computing, providing me with a perspective to think the relation between machine and human intelligence, which is a deepened influence to me till now.

Awards

National Scholarship — Ministry of Education, China
Top 2 % of all students — *Oct. 2019*

Merit Student — Huazhong University of Science and Technology, China
Top 5 % of all students — *Sept. 2019*

Leadership

LEARN Lab — LEARN Lab, China
President — *Dec. 2019 –*

- LEARN Lab is a research team consisting of highly self-motivated undergraduate students, working on machine learning and cognitive psychology.

Microsoft Learn Student Ambassador — Microsoft, U. S.
Beta Level — *Aug. 2019 –*

Academic Skills

Programming: Python, Matlab, Prolog, C/C++, LaTex
Mathematics: Calculus, Linear Algebra, Probability and Statistics, Discrete Mathematics, Complex Analysis, Numerical Analysis, Computational Theory, Convex Optimization
Writing: Academic Writing in English