Shaopeng Fu

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shaopengfu.me
Google Scholar
github.com/fshp971
shaopeng.fu@kaust.edu.sa
shaopengfu15@gmail.com
+966 (0) 56 534 0337

Education

King Abdullah University of Science and Technology — **Thuwal, Saudi Arabia**
Provable Responsible AI and Data Analytics (PRADA) Lab — Aug. 2023 – Present
Ph.D. Student in Computer Science
Advisor: Prof. Di Wang

The University of Sydney — **Sydney, Australia**
UBTECH Sydney Artificial Intelligence Centre — Oct. 2019 – Jan. 2021
Master of Philosophy (Engineering and IT)
Advisor: Prof. Dacheng Tao
Thesis Title: Bayesian Inference Forgetting

South China University of Technology — **Guangzhou, China**
B.Sc in Mathematics and Applied Mathematics — Sep. 2015 – Jun. 2019
Advisor: Prof. Chuhua Xian (Advising the Competitive Programming Group affiliated to School of CSE)
GPA: 3.61/4.00 | Rank: 6/46

Experience

King Abdullah University of Science and Technology — **Thuwal, Saudi Arabia**
Provable Responsible AI and Data Analytics (PRADA) Lab — May 2023 – Aug. 2023
Research Intern

- Topic: Trustworthy AI
- Advisor: Prof. Di Wang

JD.com, Inc. — **Beijing, China**
JD Explore Academy — Mar. 2021 – Jul. 2022
Algorithm Engineer (Full-time)

- First author of two ICLR 2022 papers.
- Co-author of the *White Paper on Trustworthy Artificial Intelligence* (Chn Ver.) (Eng Ver.).
- Chief developer of **TAICore**, a trustworthy AI assessment toolkit powered by JD Explore Academy for assessing the robustness and privacy-preserving ability of white-box and black-box ML models.

The University of Sydney — **Sydney, Australia**
UBTECH Sydney Artificial Intelligence Centre — Oct. 2019 - Oct. 2020
Research Assistant

- Working on trustworthy AI.

Publications

1. **Shaopeng Fu** and Di Wang. "Theoretical Analysis of Robust Overfitting for Wide DNNs: An NTK Approach". arXiv preprint arXiv:2310.06112, 2023.

2. **Shaopeng Fu**, Fengxiang He, Yang Liu, Li Shen and Dacheng Tao. "Robust Unlearnable Examples: Protecting Data Against Adversarial Learning". International Conference on Learning Representation (ICLR), 2022.

3. **Shaopeng Fu***, Fengxiang He* and Dacheng Tao. "Knowledge Removal in Sampling-based Bayesian Inference". International Conference on Learning Representation (ICLR), 2022.

4. Zeke Xie, Fengxiang He, **Shaopeng Fu**, Issei Sato, Dacheng Tao and Masashi Sugiyama. "Artificial Neural Variability for Deep Learning: On Overfitting, Noise Memorization, and Catastrophic Forgetting". Neural Computation 33 (8), 2021.

5. Fengxiang He*, **Shaopeng Fu***, Bohan Wang* and Dacheng Tao. "Robustness, Privacy, and Generalization of Adversarial Training". arXiv preprint arXiv:2012.13573, 2020.

Selected Awards

- International Collegiate Programming Contest (ICPC)
  - The ICPC Asia-East Continent Final Xi'an Site — Silver Medal, Dec. 2018
  - The ICPC Asia Regional Contest Qingdao Site — Silver Medal, Nov. 2018
  - The ICPC Asia Regional Contest Shenyang Site — Gold Medal (Rank: 6/186), Oct. 2018
  - The ACM-ICPC Asia Regional Contest Xi'an Site — Silver Medal, Oct. 2017
- 2017-2018 China National Scholarship — Ministry of Education of P.R. China, Nov. 2018
- 2016-2017 China National Scholarship — Ministry of Education of P.R. China, Nov. 2017

Services

Conference Reviewer

- International Conference on Machine Learning (ICML): 2022, 2023
- International Conference on Learning Representations (ICLR): 2022, 2023, 2024
- Conference on Neural Information Processing Systems (NeurIPS): 2021, 2022, 2023
- International Conference on Artificial Intelligence and Statistics (AISTATS): 2021, 2024

Journal Reviewer

- IEEE Transactions on Cybernetics
- Neural Processing Letters

Skills

Competitive Programming

- I enjoy solving mathematical problems via programming.
- My Codeforces account is **fshp971**.

Languages

- Chinese: Mother tongue.
- English: TOEFL 93 (R/L/S/W: 26/24/22/21; Jun. 2018).

Others

- C/C++, TeX, Markdown, Python, PyTorch, JAX, Linux, Arch Linux.