# Shaopeng Fu

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## Education

**The University of Sydney** **Sydney, Australia**
*UBTECH Sydney Artificial Intelligence Centre* Oct. 2019 – Jan. 2021
**Master of Philosophy (Engineering and IT)**

- My research interests were machine learning theory and trustworthy AI.
- **Supervisor:** Dacheng Tao
- **Thesis title:** Bayesian Inference Forgetting

**South China University of Technology** **Guangzhou, China**
**BSc, Mathematics and Applied Mathematics** Sep. 2015 – Jun. 2019

- Former member of the competitive programming group affiliated to the school of computer science & engineering. A **gold medalist** in ICPC Asia regional contest.
- GPA: 3.61/4.00; Rank: 6/46.
- Won **China National Scholarship (top 2%)** for two times (Nov. 2017 and Nov. 2018).

## Work Experience

**JD.com, Inc.** **Beijing, China**
*JD Explore Academy* Mar. 2021 – Jul. 2022
**Algorithm Engineer**

- My research interest is trustworthy AI.
- I am the 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-preservation ability of white-box and black-box ML models.

**The University of Sydney** **Sydney, Australia**
**Research Assistant** Oct. 2019 - Oct. 2020

- Working on trustworthy AI.

## Publications

1. **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.
2. **Shaopeng Fu***, Fengxiang He* and Dacheng Tao. "Knowledge Removal in Sampling-based Bayesian Inference". International Conference on Learning Representation (ICLR), 2022.
3. 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.

4. 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, Oct. 2018
  - The ACM-ICPC Asia Regional Contest Xi'an Site — Silver Medal, Oct. 2017
- 2017-2018 China National Scholarship (top 2%) — Nov. 2018
- 2016-2017 China National Scholarship (top 2%) — Nov. 2017

## Professional Services

**Conference Reviewer**

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

**Journal Reviewer**

- IEEE Transactions on Cybernetics
- Neural Processing Letters

## Skills

**Competitive Programming**

- I enjoy solving algorithm problems. 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.