Ms. Tongtong Fang | Curriculum Vitae

10-3 Midoricho, Tachikawa, Tokyo, Japan

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Current Position

The Institute of Statistical Mathematics **Japan**

Project Assistant Professor, working with Prof. Kenji Fukumizu 2025.04-present

- Research interests: transfer learning, representation learning, statistical machine learning

Education

The University of Tokyo **Japan**

Ph.D., Complexity Science & Engineering, supervised by Prof. Masashi Sugiyama 2020.09-2024.09

- Doctor thesis: *Towards robust deep learning under distribution shift: an importance weighting approach*

KTH Royal Institute of Technology | University of Nice Sophia Antipolis **Sweden | France**

M.S., Information & Communication Technology | M.S., Computer Science 2016.09-2019.12

- Master thesis: *Learning from noisy labels by importance reweighting: a deep learning approach*

Southwest University **China**

B.S., Statistics 2012.09-2016.06

- Bachelor thesis: *Analysis of the household livelihood strategy in Cambodia measured by SVM and Decision Tree*

Experiences

• 2024.10-2025.03	JSPS Fellow (PD)	The Institute of Statistical Mathematics	Japan
• 2023.04-2024.09	JSPS Fellow (DC2)	The University of Tokyo	Japan
• 2021.11-2024.09	Research Assistant	Institute for AI and Beyond, The University of Tokyo	Japan
• 2018.11-2019.08	Research Intern	RIKEN Center for Advanced Intelligence Project (AIP)	Japan
• 2017.10-2018.08	Research Assistant	Human-Robot Collaboration Laboratory, KTH	Sweden
• 2014.09-2015.06	Research Intern	Toulouse III University (fund by Erasmus Mundus program)	France

Publications

- **T. Fang**, N. Lu, G. Niu, M. Sugiyama, "Generalizing Importance Weighting to A Universal Solver for Distribution Shift Problems". In *Advances in Neural Information Processing Systems 36 (NeurIPS 2023),* pp. 24171--24190. (This paper was selected for spotlight presentation; spotlights : acceptance : submissions = 378 : 3218 : 12343).
- **T. Fang***, N. Lu*, G. Niu, M. Sugiyama, "Rethinking Importance Weighting for Deep Learning under Distribution shift". In *Advances in Neural Information Processing Systems 33 (NeurIPS 2020)*, pp. 11996--12007. (This paper was selected for spotlight presentation; spotlights : acceptance : submissions = 280 : 1900 : 9454, * equal contributions).
- N. Lu, T. Zhang, **T. Fang**, T. Teshima, M. Sugiyama, "Rethinking Importance Weighting for Transfer Learning". Federated and Transfer Learning. Cham: Springer International Publishing, 2022. 185-231.
- H. Liu, **T. Fang**, T. Zhou, L. Wang, "Towards Robust Human-Robot Collaborative Manufacturing: Multimodal Fusion", in *IEEE Access,* vol. 6, pp. 74762-74771, 2018.
- H. Liu, **T. Fang**, T. Zhou, Y. Wang, L. Wang, "Deep Learning-based Multimodal Control Interface for Human-Robot Collaboration", *Procedia CIRP of the 51th Conference on Manufacturing Systems*, 72 (2018)3–8.

Talks & Workshops

- *Poster* presentation in *The Machine Learning Summer School in Okinawa (MLSS) 2024.*
- *Talk* at *International Workshop on Weakly Supervised Learning 2023*.
- *Poster* presentation in *Information-Based Induction Sciences and Machine Learning (IBIS) 2023.*
- *Long-talk (50-min)* at *NVIDIA GPU Technology Conference (GTC) 2021.*
- *Poster* presentation in *Information-Based Induction Sciences and Machine Learning (IBIS) 2020.*
- *Poster* presentation in *Asian Conference on Machine Learning (ACML) 2019 Workshop*.

Services

- Reviewers for: *ICML, NeurIPS, ICLR, AAAI, AISTATS, ACML, IEEE Transactions on Pattern Analysis and Machine Intelligence, Machine Learning Journal, Transactions on Machine Learning Research, Neural Networks, Neural Processing Letters*, and workshops.