

Curriculum Vitae

PERSONAL INFORMATION

Tianyu Zhang
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EDUCATION

- 09/2021–06/2026 **Ph.D. Student, Department of Computer Science and Operations Research**
MILA, Université de Montréal, Canada
Advisor: Prof. Dr. Yoshua Bengio
- 09/2020–06/2021 **M.Sc. in Computer Science, Department of Computer Science and Operations Research**
MILA, Université de Montréal, Canada
Advisor: Prof. Dr. Yoshua Bengio
- 09/2018–01/2020 **M.S. in Applied Mathematics, Courant Institute of Mathematical Sciences**
New York University, USA
Advisor: Prof. Dr. Petter Kolm
- 09/2014–07/2018 **B.S. in Mathematics and B.Econ. in Finance, Institute for Advanced Study**
Wuhan University, China
Advisor: Prof. Dr. Yingfeng Fang

PUBLICATIONS

Journal Publications

1. MAO, L., AND ZHANG, T. A minimal sufficient set of procedures in a bargaining model. *Economics Letters* 152 (2017), 79–82

Conferences

1. SCHMIDT, V., LUCCIONI, A., TENG, M., ZHANG, T., REYNAUD, A., RAGHUPATHI, S., COSNE, G., JURAVER, A., VARDANYAN, V., HERNÁNDEZ-GARCÍA, A., AND BENGIO, Y. ClimateGAN: Raising climate change awareness by generating images of floods. In *International Conference on Learning Representations* (2022)
2. JAIN, M., BENGIO, E., HERNANDEZ-GARCIA, A., RECTOR-BROOKS, J., DOSSOU, B. F. P., EKBOTE, C. A., FU, J., ZHANG, T., KILGOUR, M., ZHANG, D., SIMINE, L., DAS, P., AND BENGIO, Y. Biological sequence design with GFlowNets. In *Proceedings of the 39th International Conference on Machine Learning* (17–23 Jul 2022), K. Chaudhuri, S. Jegelka, L. Song, C. Szepesvari, G. Niu, and S. Sabato, Eds., vol. 162 of *Proceedings of Machine Learning Research*, PMLR, pp. 9786–9801
3. WU, Y., CHEN, K., ZHANG, T., HUI, Y., BERG-KIRKPATRICK, T., AND DUBNOV, S. Large-scale contrastive language-audio pretraining with feature fusion and keyword-to-caption augmentation, 2023

Extended Abstract / Short Papers

1. ZHANG, T., WILLIAMS, A., PHADE, S., SRINIVASA, S., ZHANG, Y., GUPTA, P., BENGIO, Y., AND ZHENG, S. Ai for global climate cooperation: Modeling global climate negotiations, agreements, and long-term cooperation in rice-n, 2022
2. MAI, V., ZHANG, T., AND LESAGE-LANDRY, A. Multi-agent reinforcement learning for renewable integration in the electric power grid. In *NeurIPS 2021 Workshop on Tackling Climate Change with Machine Learning* (2021)
3. MAI, V., MAISONNEUVE, P., ZHANG, T., NEKOEI, H., PAULL, L., AND LESAGE-LANDRY, A. Multi-agent reinforcement learning for fast-timescale demand response of residential loads, 2023

Technical Report

1. BENGIO, Y., GUPTA, P., RADOVIC, D., SCHOLL, M., WILLIAMS, A., DE WITT, C. S., ZHANG, T., AND ZHANG, Y. (private)-retroactive carbon pricing [(p)recap]: A market-based approach for climate finance and risk assessment, 2022

COMMUNITY SERVICES

Organizing Committee

1. [\[AI4CC'22\]: AI for Global Climate Cooperation 2023](#). Role: Program Chairs

Reviews

1. **[NeurIPS '23]**: Neural Information Processing Systems2023. Role: Reviewer
2. **[AI4CC' 23]**: AI for Global Climate Cooperation2023. Role: Reviewer
3. **[ICML' 23]**: International Conference on Machine Learning2023. Role: Reviewer
4. **[NeurIPS '22]**: Neural Information Processing Systems2023. Role: Reviewer
5. **[ICML' 22]**: International Conference on Machine Learning2023. Role: Reviewer

LANGUAGES

Mandarin (native)

English (GRE: 330/340)

REFERENCE

Prof. Dr. Yoshua Bengio (M.Sc. & Ph.D. advisor)

Position: Professor at University of Université de Montréal

Institute: Department of Computer Science and Operations Research

Email: yoshua.bengio@A.T.mila.quebec

[CV compiled on April 18, 2023 for the website <https://ai.t-zhang.com/>]

Montréal - Canada, April 18, 2023