Curriculum Vitae

Personal Information

Tianyu Zhang
Ph.D. Student
MILA, Université de Montréal
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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 Commitee

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
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Montréal - Canada, April 18, 2023