

Yingtao Luo

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EDUCATION

Carnegie Mellon University (CMU), USA

Ph.D. in Information System and Management 2022.08 – 2027.06

Heinz College of Information System and Public Policy

Advisors: George Chen, Leman Akoglu.

Currently applying for the joint PhD with Machine Learning Department

2023.08 – 2027.06

Heinz College & MLD at School of Computer Science

University of Washington (UW), USA

M.S. in Computer Science & Systems 2020.10 – 2022.06

Course & Research concentration on data science track

Huazhong University of Science and Technology (HUST), China

B.S. in Applied Physics minor in Computer Science 2015.09 – 2019.06

Outstanding Graduate Representative of HUST (Top 1%, 40 out of 6800 in university)

PUBLICATIONS

(* Equal Contribution. Click to visit the URL)

1. **Luo, Y.**, Liu, Q., Liu, Z. STAN: Spatio-Temporal Attention Network for the Next Location Recommendation. *The Web Conference (WWW) 2021*. [[code](#)] [[arXiv](#)] [[DOI](#)] [[talk](#)]
2. Zhang, Z.*, **Luo, Y.***, Peng, H., Chen, Y., Liao, R.-Z., Zhao, Q. Deep spatial learning of polyamide nanofiltration membranes. *Journal of Membrane Science & NeurIPS ML4Mol Workshop*. [[code](#)] [[DOI](#)]
3. **Luo, Y.-T.**, Li, P.-Q., Li, D.-T., Peng, Y.-G., Geng, Z.-G., Xie, S.-H., Li, Y., Alù A. Zhu J., Zhu, X.-F. Probability-Density-Based Deep Learning Paradigm for the Design of Functional Metastructures. *Research (Flagship Science Partner Journal) & NeurIPS ML4PS Workshop*. [[code](#)] [[DOI](#)]
4. Chen, Y., **Luo, Y.**, Liu, Q., Xu, H., Zhang, D. Symbolic genetic algorithm (SGA) for discovering open-form partial differential equations. *Physics Review Research*. [[code](#)] [[arXiv](#)]
5. Liu, Q., **Luo, Y.**, Wu, S., Zhang, Z., Yue, X., Jin, H., Wang, L. Reject-aware Multi-Task Network for Financial Credit Scoring. *IEEE Transactions on Knowledge and Data Engineering*. [[arXiv](#)] [[DOI](#)]
6. **Luo, Y.**, Xu, C., Liu, Y., Liu, W., Zheng, S., Bian, J. Learning Differential Operators for Interpretable Time Series Modeling. *ACM SIGKDD 2022*.

PREPRINTS

7. **Luo, Y.**, Liu, Q., Chen, Y., Hu, W., Zhu, J. Physics-Guided Discovery of Highly Nonlinear Parametric Partial Differential Equations. Submitted to *NeurIPS 2022*. [[arXiv](#)]
8. **Luo, Y.**, Liu, Z., Liu, Q. Deep Stable Representation Learning on Electronic Health Records. Submitted to *ICDM 2022*.
9. Jiang, J., **Luo, Y.**, Kim, J., Kim, S. BiCAT: Bi-Chronological Augmentation of Transformer in Sequential Recommendation. Submitted to *ICDE 2023*.

10. Liu, Z., **Luo, Y.**, Liu, Q. Deep Stable Multi-Interest Learning for Sequential Recommendation. Submitted to *WWW* 2023.

WORK EXPERIENCES

- i. **Research Intern, Machine Learning Group, Microsoft Research Asia** 2021.11 – 2022.03
- Project: Neural Differential Equation and open-source [Qlib](#) development.
 - Advisors: Prof. [Tieyan Liu](#), Dr. [Jiang Bian](#), and Dr. [Chang Xu](#)
- ii. **Research Assistant, Tsinghua-Bosch Joint Lab & RealAI** 2020.06 – 2022.06
- Project: Machine Learning and Data Mining.
 - Advisors: Prof. [Jun Zhu](#) and Dr. [Qiang Liu](#)

RESEARCH EXPERIENCES

- i. Project: AI Management for Livestreaming Shopping. 2022.05 – now
- Collaborators: Prof. [Wen Wang](#) (University of Maryland) and Prof. [Xueming Luo](#) (Temple University)

ACADEMIC SERVICES & MEMBERSHIPS

Conference Reviewer (PC Member): ICLR 2022 (Outstanding Reviewer Award), NeurIPS 2022

ACM Professional Member

SKILLS

- Python, Pytorch, C++, COMSOL, Linux, MATLAB, Hadoop/Spark, HTML.
- English: TOELF BEST SCORE 104 (R 28, L 26, S 24, W 26); GRE AW 4.0

EXCHANGE & VISITING PROGRAM

Columbia University 2017.07 – 2017.09

Summer Session: Statistical Inference and Oral Communication Courses.

AWARDS

- Student Scholarship of *TheWebConf2021* 2021
- Bosch-RealAI Patent Encouragement Scholarship 2021
- Meritorious Winner of Interdisciplinary Contest of Modeling (Top 9% globally), 2018
- 1st Prize of China Mathematical Modeling Contest (Top 1% nationwide), 2017