Rui-Xi (Ray) Wang

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RESEARCH INTERESTS

AI for Science, AI for Health

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA — 09/2022 — 05/2025 (expected)
Bachelor of Science in Computer Science and Engineering and Mathematics — Cumulative GPA: 5.0/5.0

National Taiwan University, Taipei, Taiwan — 09/2021 — 06/2022
Bachelor of Engineering in Electrical Engineering (incomplete) — Cumulative GPA: 4.06/4.3

RESEARCH EXPERIENCE

Connor Coley's Lab, MIT — Cambridge, MA
Advisor: prof. Connor Coley — 05/2024 — Present

- Developing GNN and Transformer-based Mass Spectrum Prediction model with Retrieval Augmented Generation (RAG) and graph matching algorithm

Camera Culture Group, MIT Media Lab — Cambridge, MA
Advisor: prof. Ramesh Raskar — 11/2024 — Present

- Developing Decentralized AI system for healthcare with methylation data

Learning Matter Lab, MIT — Cambridge, MA
Advisor: prof. Rafael Gómez-Bombarelli — 01/2023 — 05/2024

- Organizing and Bench-marking the performance of various models on NIR and UV-VIS spectrum datasets

PUBLICATIONS

(* Equal Contribution)

Journal paper

- Greenman, K. P.; **Wang, R.-X.**; Nam, J.; Subramanian, A.; Ruža, J.; Joung, J. F.; Han, M.; Green, W. H.; Park, S.; Gómez-Bombarelli, R. Benchmarking predictions of near-infrared absorption with physics-based and machine learning methods in **MIT graduate thesis**

Conference Paper

- Wang, R.*; **Wang, R.-X.***; Manjrekar, M.; Coley, C. Neural Graph Matching Improves Retrieval Augmented Generation in Molecular Machine Learning submitted to **International Conference on Machine Learning (ICML)** (under review)

AWARDS

Gold Medal — Osaka, Japan (remote)
International Chemistry Olympiad — 08/2021

Fu Bell Scholarship(top freshman student) — Taipei, Taiwan
National Taiwan University — 09/2021

WORK EXPERIENCES

Microsoft — Redmond, WA
Software Engineering Intern — 06/2025 — 08/2025 (expected)

Delta Biosciences — Vilnius, Lithuania
Research Intern — 06/2023 — 08/2023

SKILLS

- **Programming Languages:** Python, C++, C, Go, SQL, RISC-V
- **Libraries:** Numpy, Pandas, Matplotlib, PyTorch, Tensorflow, scikit-learn
- **Tools:** Linux, Git