Jason Liu

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EDUCATION

Rutgers University, New Brunswick, NJ — September 2023 – Present
Bachelor of Science, Computer Science and Mathematics — GPA: 4.0

EXPERIENCE

Research Assistant — September 2024 – Present
Zhu Group, Rutgers University — New Brunswick, NJ

Research Assistant — June 2022 – Present
Xing Lab of Genomics, Rutgers University — New Brunswick, NJ

- Develop novel genome analysis pipelines
- Visualize and summarize results through writing and presentation
- Develop and maintain lab websites (Xing Lab and TIC Genetics Study)

PUBLICATIONS

1. Zeng, W., Xu, J., Liu, J., Marin, D., Treff, N., Xing, J. (2024 October) Identification and prioritization of candidate genes associated with aneuploidy using PGT-A data. MABC 2024, Philadelphia, PA [Conference]
2. Liu, J., Xu, M., Xing, J. (2024 October) Systematic assessment of active module identification algorithms. MABC 2024, Philadelphia, PA [Conference]
3. Biswas, L., Tyc, K., Aboelenain, M., Sun, S., Dundović, I., Vukušić, K, Liu, J., Guo, V., Xu, M., Scott, R., Tao, X., Tolić, I., Xing, J., Schindler, K. (2024 July) Maternal genetic variants in kinesin motor domains prematurely increase egg aneuploidy, *Science Translational Medicine*. [Journal]
4. Liu, J., Xu, M., Schindler, K., Xing, J. (2023 October) Using PAPER to identify active modules in an aneuploidy dataset. MABC 2023, Philadelphia, PA. [Conference]
5. Liu, J., Sun, S., Xing, J. (2022 October) Predicting embryonic aneuploidy rate and identifying candidate genes in IVF patients using synonymous variants. MABC 2022, Philadelphia, PA. [Conference]

TALKS

Systematic assessment of active module identification algorithms. *Research in Progress Seminar*, Department of Genetics, Rutgers University (January 2025).

Predicting embryonic aneuploidy rate and identifying candidate genes in IVF patients using synonymous variants. *Lightning Talk*, MABC 2022 (October 2022)

AWARDS

The David and Dorothy Bernstein Scholarship for Summer Research
Rutgers University - School of Arts & Sciences (2024).

Trainee Award
MidAtlantic Bioinformatics Conference (2022).

SKILLS

Programming languages: Python, UNIX Shell, R, Java, C++
Presentation and written communication
Project design and management
Languages: Mandarin (fluent).