Daniel P. Ruskin

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Education

Ph.D. Student, University of Maryland Aug 2025 – Present
Information Studies

Bachelor of Science, Washington University in St. Louis Aug 2021 – May 2025
Computer Science | *Second Major: Systems Science & Engineering* | *Minor: History*

Research Interests

Data Science, Machine Learning, Network Analysis, Digital History

Journal Articles

1. **Ruskin, D.**, Rasul, R., & McCann-Pineo, M. (2022). Predictors of Emergency Department Opioid Use Among Adolescents and Young Adults. *Pediatric Emergency Care*, *38*(8), e1409–e1416.

Preprints

1. Jung, W. J., Acharya, S., **Ruskin, D. P.**, Liao, S., Akbary Moghaddam, V., Erdenebaatar, Z., & Brent, M. R. (2025). Combining Motifs, CRE Activity, And Gene Expression Data Using ML Greatly Improves the Accuracy of Tissue-Specific TF Network Maps. *bioRxiv*, 2025-10.

Presentations

1. Jung, W.J., Acharya, S., **Ruskin, D. (presenter)**, Liao, S., Moghaddam, V.A., & Brent, M.R. (2024). Mapping Transcription Factor Regulatory Networks in Human Tissues Using Ensemble Learning. *Midstates Consortium Undergraduate Research Symposium in the Physical Sciences, Mathematics and Computer Science*. Talk.
2. Jung, W.J., Acharya, S., **Ruskin, D. (presenter)**, Liao, S., Moghaddam, V.A., & Brent, M.R. (2024). Mapping Transcription Factor Regulatory Networks in Human Tissues Using Ensemble Learning. *Undergraduate Research Symposium at Washington University in St. Louis*. Talk.

Teaching

Introduction to Engineering Design, Washington University in St. Louis Spring 2023, Spring 2024
Assistant Instructor

Introduction to ESE, Washington University in St. Louis Fall 2022, Fall 2023
Peer Solving Team Leader

Previous Research/Professional Experience

The Brent Lab at Washington University in St. Louis Aug 2023 – Aug 2025
Research Assistant

Regeneron Pharmaceuticals Jun 2023 – Aug 2023
Molecular Profiling and Data Science Intern

The Feinstein Institutes for Medical Research at Northwell Health Apr 2020 – Jun 2021
High School Researcher

Awards

Research Excellence Award Apr 2025
WashU Department of Computer Science and Engineering
- One of three students in the 2025 graduating class selected for excellence in computer science research.

Senior Academic Excellence Award and Antoinette Frances Dames Award Apr 2025
WashU McKelvey School of Engineering
- One of 13 students in the 2025 graduating class with a 4.0 cumulative GPA.

Antoinette Frances Dames Award Apr 2023
WashU McKelvey School of Engineering
- One of 20 students with a 4.0 cumulative GPA after three semesters.