

Noga H. Rotman

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Academic Appointments

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| Research Fellow in Machine Learning and Networking
Computer Science Department, University College London. | 2025–Present |
| Andrew and Erna Finci Viterbi Post-doctoral Fellow
Electrical and Computer Engineering, Technion – Israel Institute of Technology. | 2024–2025 |

Education

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| Ph.D. in Computer Science, The Hebrew University of Jerusalem
Dissertation: Safe Deployment of Deep Learning Solutions for Rate Control Problems.
Advisor: Professor Michael Schapira. | 2024 |
| M.Sc. in Computer Science, The Hebrew University of Jerusalem
Dissertation: Creating a Data Graph Update from Raw Text.
Advisor: Professor Yehoshua Sagiv. | 2017 |
| B.Sc. in Mathematics & Computer Science, The Hebrew University of Jerusalem.
Graduated with honors. | 2012 |

Publications

† Equal Contribution

Peer-Reviewed Publications

1. **Noga H. Rotman**, Michael Schapira and Aviv Tamar. 2020. Online Safety Assurance for Learning-Augmented Systems. *Proceedings of the 19th ACM Workshop on Hot Topics in Networks (HotNets)*. doi:10.1145/3422604.3425940.
2. Nathan Jay[†], **Noga H. Rotman**[†], P. Brighten Godfrey, Michael Schapira and Aviv Tamar. 2019. A Deep Reinforcement Learning Perspective on Internet Congestion Control. *International Conference on Machine Learning (ICML)*. **Cited 600+ times** (Google Scholar). PMLR 97:3050–3059.

Invited Articles

1. **Noga H. Rotman**. 2023. Tackling Deployability Challenges in ML-Powered Networks. *ACM SIGMETRICS Performance Evaluation Review (PER)*, 51(2). doi:10.1145/3626570.3626605.

Current Preprints & Manuscripts

1. Yutong Zhao[†], **Noga H. Rotman**[†], Gianni Antichi, Ran Ben Basat. 2026. ML-for-ML. arXiv:2608.06046.
2. Mariano Scazzariello, **Noga H. Rotman**, Dima Gavrilenko, Sajy Khashab, Alexander Shpiner, Matty Kadosh, Marco Chiesa, Dejan Kostic, Mark Silberstein. 2026. Avoiding Cross-Datacenter Collective Congestion via Disaggregated Buffering. arXiv:2605.11852.
3. **Noga H. Rotman**, Tiago Ferreira, Hila Peleg, Mark Silberstein, Alexandra Silva. 2025. RFSeek and Ye Shall Find. arXiv:2509.10216. Led to a **verified IETF erratum** to RFC 9293 (TCP), Errata ID 8710.

Earlier Manuscripts & Technical Reports

1. **Noga H. Rotman**, Yaniv Ben-Itzhak, Aran Bergman, Israel Cidon, Igor Golikov, Alex Markuze, Eyal Zohar. 2022. CloudCast: Characterizing Public Clouds Connectivity. arXiv:2201.06989.
2. Aran Bergman, Israel Cidon, Isaac Keslassy, **Noga H. Rotman**, Michael Schapira, Alex Markuze, Eyal Zohar. 2018. Pied Piper: Rethinking Internet Data Delivery. arXiv:1812.05582.

Fellowships & Awards

UCL Computer Science Early Career Mini Fellowship, University College London	2026
Andrew and Erna Finci Viterbi Post-doctoral Fellow	2024
Eric and Wendy Schmidt Postdoctoral Award for Women in Mathematical and Computing Sciences	2023

Talks

Invited Talks

- 2026 *Designing and Understanding Networked Systems Across Boundaries.*
University of Cambridge. Upcoming.
- 2026 *Beyond ASCII Art: Making RFC Protocol Logic Auditable with RFSeek.*
IETF-125 (RASPRG), Internet Engineering Task Force. March 2026.
- 2023 *Tackling deployability challenges in ML-powered networks.*
Workshop on Measurements for Self-Driving Networks at ACM SIGMETRICS (FCRC). June 2023.

Contributed Presentations

- 2023 *Safe Defaulting for ML-Powered Systems.*
Israeli Networking Day 2023.
- 2019 *A Deep Reinforcement Learning Perspective on Internet Congestion Control.*
AI Week 2019, Yuval Ne'eman Workshop for Science, Technology and Security.
- 2019 *Internet Congestion Control via Deep Reinforcement Learning.*
Israeli Networking Day 2019.

Academic Service

Program Committee Member, ACM CoNEXT	2026
Session Chair, Next Generation Networking, Multi-Service Networks Workshop	2026
Session Chair, Israeli Networking Day	2022
Session Student Co-Chair, ACM HotNets	2020

Teaching & Mentoring

Teaching Assistant

Introduction to Object Oriented Programming (#67125), The Hebrew University of Jerusalem.	Spring 2019
Operating Systems (#67808), The Hebrew University of Jerusalem.	Spring 2014
Thinking and Computation (#67751), The Hebrew University of Jerusalem.	Fall 2013

Guest Lecturer

Introduction to Object Oriented Programming (#67125), The Hebrew University of Jerusalem.	Spring 2018
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Student Mentoring

Research mentor: visiting PhD student. University College London. Provided regular technical guidance on simulation design, implementation planning, experimental methodology, and research writing.	2025–Present
Research project mentor: two undergraduate students, one M.Sc. student, The Hebrew University of Jerusalem. Recruited and mentored students on projects extending my master's research; scoped independent subprojects and supervised implementation and integration into the broader research codebase.	2015–2016

Leadership & Community

Founder and organizer, “Off the Record” seminar, The Hebrew University of Jerusalem. Founded and ran a graduate student seminar that led to its integration as a mandatory course for all Computer Science PhD students at the university since 2021.	2014 – 2020
Co-Founder, Baot Researchers. Co-founded and launched a research community within Baot, an Israeli community for women in tech, bringing together researchers in academia and industry for technical exchange and peer support.	2023–Present
Mentor, QueenB and Baot. Mentored undergraduates and master's students on career development, graduate study, and transitioning to PhD programs through QueenB, an Israeli nonprofit promoting women in computer science, and Baot.	2023–Present
Co-Organizer, DataHack. Co-organized the first data-oriented hackathon in Israel.	2015 – 2017

Industry Experience

Research Intern, VMware Research Group. Initiated and led a large-scale study of public-cloud connectivity, including methodology design and analysis across thousands of cloud links. The work resulted in <i>CloudCast</i> , which was featured in an internal conference.	Summer 2018, Summer 2019
Team Lead, Altair Semiconductor. Led a technical team while completing graduate studies.	2016 – 2018