

Education

- Carnegie Mellon University**, Pittsburgh, PA 2024
PhD candidate in Computer Science. Advised by Professors Deva Ramanan and Mahadev Satyanarayanan. *(expected)*
- Stanford University**, Stanford, CA 06/18
MS in Computer Science.
- Stanford University**, Stanford, CA 06/12
BS in Computer Science, minor in Management Science and Engineering.

Professional Experience

- Engineering Manager and Technical Lead**, Palantir Technologies, New York, NY 08/12-08/19
- Led R&D efforts to improve Palantir's Foundry data platform:
 - o Created interactive search and analysis infrastructure that evolved into one of the primary user interfaces of Palantir's Foundry data lake platform deployed across the company's customer fleet
 - o Invented full-text search system that powers Palantir's internal log analysis infrastructure and a significant part of the Foundry data lake platform
 - Led inception and rollout of one of Palantir's flagship data analytics products
 - Managed the technical implementation of a variety of high-profile customer engagements in the commercial sector (leading teams of 10-100+ individuals)
 - Supervised and mentored a team of 7+ direct reports
- Cofounder**, TradeSensei, Palo Alto, CA 01/12-08/12
- Founded a trading startup and wrote the backend infrastructure enabling beta users to participate in real-time trading competitions
 - Participated in Stanford StartX accelerator program
- Software Engineering Intern**, Addepar, Mountain View, CA 04/11-09/11
- Worked on developing a software platform to help private financial advisors and family offices perform quantitative analysis and interface with their clients

Research Experience

- Graduate Independent Study**, Stanford University, Stanford, CA 01/18-06/18
- Contributed to the Legion programming system under Professor Alex Aiken
 - Implemented the Barnes-Hut simulation in a novel parallel programming language and benchmarked it against the Sherlock supercomputing cluster
- Research Assistant**, Stanford University, Stanford, CA 06/10-12/10
- Conducted computer vision research under Professor Daphne Koller
 - Co-authored two accepted conference papers

Teaching Experience

- Graduate Student Instructor, Dept. of Computer Science**, Carnegie Mellon University 09/20-
- Teaching assistant for 15-640 (Distributed Systems) and inaugural 17-700 class (Data Science and Machine Learning at Scale) *Present*

- Supported and mentored team of undergraduate teaching assistants
- Created and graded assignments, exams, and class projects
- Designed and presented lecture materials
- Supported students during office hours and class forums

Project Mentor, Dept. of Computer Science, Carnegie Mellon University

09/20-

- Designed a term project for 15-821 (Mobile and Pervasive Computing)
- Met and provided guidance to project members on a regular basis

Present

Publications (Reverse Chronological Order)

- [1] Shilpa George, **Haithem Turki**, Ziqiang Feng, Thomas Eiszler, Deva Ramanan, Padmanabhan Pillai, Mahadev Satyanarayanan, "Selective Transmission of Rare Positives for Training Sets from Weakly-Connected Unmanned Probes." Under submission.
- [2] **Haithem Turki**, Deva Ramanan, Mahadev Satyanarayanan, "[Mega-NeRF: Scalable Construction of Large-Scale NeRFs for Virtual Fly-Throughs.](#)" To appear in CVPR 2022.
- [3] Shilpa George, Thomas Eiszler, Roger Iyengar, **Haithem Turki**, Ziqiang Feng, Junjue Wang, Padmanabhan Pillai, Mahadev Satyanarayanan, "[OpenRTiST: End-to-End Benchmarking for Edge Computing.](#)" in IEEE Pervasive Computing, vol. 19, no. 4, pp. 10-18, 1 Oct.-Dec. 2020
- [4] Mahadev Satyanarayanan, Thomas Eiszler, Jan Harkes, **Haithem Turki** and Ziqiang Feng, "[Edge Computing for Legacy Applications.](#)" in IEEE Pervasive Computing, vol. 19, no. 4, pp. 19-28, 1 Oct.-Dec. 2020
- [5] M. Pawan Kumar, **Haithem Turki**, Dan Preston and Daphne Koller, "[Parameter Estimation and Energy Minimization for Region-Based Semantic Segmentation.](#)" in IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 37, no. 7, pp. 1373-1386, 1 July 2015.
- [6] M. Pawan Kumar, **Haithem Turki**, Dan Preston and Daphne Koller, "[Learning specific-class segmentation from diverse data.](#)" 2011 International Conference on Computer Vision, Barcelona, 2011, pp. 1800-1807.

Patents

- [1] **Haithem Turki**, Robert Fink, Amr Al Mallah. "[Systems and Methods for Indexing and Searching.](#)" US Patent 2019/0347343 A1, filed June 8, 2018, and issued November 14, 2019.
- [2] **Haithem Turki**, Sander Kromwijk, Stephen Cohen, Yixun Xu, Feridun Arda Kara. "[Systems and Methods for Constraint Driven Database Searching.](#)" US Patent 2018/293239 A1, filed April 11, 2017, and issued October 11, 2018.

Technical Reports

- [1] Ziqiang Feng, Shilpa George, **Haithem Turki**, Roger Iyengar, Padmanabhan Pillai, Jan Harkes, Mahadev Satyanarayanan. "[Improving Edge Elasticity via Decode Offload.](#)" CMU-CS-21-139, September 2021.

Additional Information

- **Volunteer Activities:** Alchemist Accelerator (mentor and investor)
- **Languages:** Fluent in French and Arabic. Currently learning Japanese and German.
- **Other Qualifications:** Eberly Future Faculty Program. Top Secret security clearance (current). FINRA Series 65. Graduate of the Stanford StartX startup accelerator.