

Joshua Shay Kricheli

🏠 Syracuse, New York, USA ✉️ jkrichel@syr.edu 📞 +1 (480) 913-6199

🌐 shay-kricheli 🔄 krichelj 🌐 krichelj.github.io 🎓 Google Scholar

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Occupational Experience

Research Associate <i>Leibnitz Lab, Syracuse University (SU)</i>	Syracuse, New York, USA <i>2025-Present</i>
Visiting Gen-AI Researcher <i>Institute for Creative Technologies (ICT), University of Southern California (USC)</i>	Los Angeles, California, USA <i>2025</i>
Research Associate <i>V2 Lab, Arizona State University (ASU)</i>	Tempe, Arizona, USA <i>2023-2025</i>
Vice President Data Science <i>Frenn Analytics</i>	Tel Aviv, Israel <i>2022</i>
AI/ML Research Associate and Teaching Assistant <i>Ben-Gurion University of the Negev (BGU)</i>	Beer Sheva, Israel <i>2019-2023</i>
Data Scientist <i>Dell Technologies</i>	Beer Sheva, Israel <i>2019-2022</i>
Computer Chips Manufacturing Process Engineer <i>Intel Corporation</i>	Kiryat Gat, Israel <i>2018-2019</i>

Education

2025-2027 - Philosophy Doctor (Ph.D.), Computer Science <i>Advised by Prof. Paulo Shakarian</i>	Syracuse University <i>Current GPA: 4.0/4.0, Expected graduation in 2027</i>
2023-2025 - Philosophy Doctor (Ph.D.), Computer Science <i>Advised by Prof. Paulo Shakarian</i>	Arizona State University <i>GPA: 4.0/4.0, Transferred to SU</i>
2019-2022 - Master of Science (M.Sc.), Computer Science <i>AI Major, advised by Prof. Gera Weiss and Prof. Shai Arogeti</i>	Ben-Gurion University of the Negev <i>GPA: 92.26/100, Thesis grade: 94/100</i>
2018-2019 - Computer Science M.Sc. Prerequisites Program <i>One-year program of core CS courses</i>	Ben-Gurion University of the Negev <i>GPA: 84.5/100</i>
2014-2018 - Bachelor of Science (B.Sc.), Mechanical Engineering <i>Control Systems, Mechatronics and Robotics Major</i>	Ben-Gurion University of the Negev <i>GPA: 84.74/100, Senior GPA: 89.52/100</i>

Publications

AAAI 40th Annual AAAI Conference on Artificial Intelligence ('AAAI 2026'), Singapore <i>Consistency-based Abductive Reasoning over Perceptual Errors of Multiple Pre-trained Models in Novel Environments</i>	2025
Mario Leiva, Noel Ngu, Joshua Shay Kricheli, Aditya Taparia, Ransalu Senanayake, Paulo Shakarian, Nathaniel Bastian, John Corcoran and Gerardo Simari	
Southwest Robotics Symposium ('SWRS'), Tempe, Arizona, USA <i>VLC Fusion: Vision-Language Conditioned Sensor Fusion for Robust Object Detection</i>	2025
Aditya Taparia, Noel Ngu, Mario Leiva, Joshua Shay Kricheli, John Corcoran, Nathaniel D Bastian, Gerardo Simari, Paulo Shakarian and Ransalu Senanayake	
ACM SIGIR 33rd International Conference on Information and Knowledge Management ('CIKM 2024'), Boise, Idaho, USA <i>Error Detection and Constraint Recovery in Hierarchical Multi-Label Classification without Prior Knowledge</i>	2024
Joshua Shay Kricheli, Khoa Vo, Aniruddha Datta, Spencer Ozgur and Paulo Shakarian	
Computer Science M.Sc. Research Thesis <i>Differential Games for Compositional Handling of Competing Control Tasks</i>	2022
IEEE 29th Mediterranean Conference on Control and Automation ('MED'), Bari, Italy <i>Composition of Dynamic Control Objectives Based on Differential Games</i>	2021
Joshua Shay Kricheli, Aviran Sadon, Shai Arogeti, Shimon Regev and Gera Weiss	
35th Israeli Conference on Mechanical Engineering ('ICME'), Beer Sheva, Israel <i>SNIC Bifurcation and its Application to MEMS</i>	2018
Joshua Shay Kricheli and Oriel Shoshani	

Selected Fellowships, Scholarships, Affiliations and Awards

Ph.D. KG Tan Computer Science Award <i>Syracuse University fellowship by the SU Alum Innovator Kwang G. Tan</i>	2025-Present
Ph.D. Galileo Project Affiliate, Center for Astrophysics, Harvard University <i>Employing AI in the scientific search for evidence of extraterrestrial artifacts</i>	2024-Present
Ph.D. IEEE Eta Kappa Nu ('HKN') Engineering Honor Society <i>ASU Epsilon Beta Chapter of the IEEE honor society for outstanding students</i>	2024-2025
Ph.D. 'Global Security Initiative' 4-Year Fellowship <i>Fellowship for security-focused research improving capabilities for US national security</i>	2023-2025
M.Sc. Israeli National Science Foundation (NSF) Grant <i>Research grant for academic teams who contributed outstanding novel work</i>	2023
M.Sc. 'Israel Data Science Initiative' & German 'Helmholtz Data Science Academy' Exchange Program <i>DL research at the 'Deutsches Zentrum für Luft und Raumfahrt' ('DLR') - Germany's NASA</i>	2022
M.Sc. 'Israeli Smart Transportation Research Center' ('ISTRC') Excellence Scholarship <i>Technion and Bar-Ilan program with Israel's prime minister's office</i>	2020-2021
M.Sc. 'Agricultural, Biological and Cognitive' ('ABC') Robotics 2-Year Fellowship <i>BGU fellowship for innovative robotics students serving as teaching assistants</i>	2019-2021
B.Sc. 'Education for Excellence' 1-Year Fellowship <i>Israeli foundation for historically unrepresented youth for academic excellence</i>	2015-2016
B.Sc. 'Israel Scholarship Education Foundation' ('ISEF') 3-Year Fellowship <i>Academic excellence and leadership fellowship funded by investors from the United States</i>	2014-2017
B.Sc. Tel-Aviv University (TAU) 4-Year Excellence Scholarship <i>Excellence in engineering academic scholarship granted by Tel-Aviv University, Israel</i>	2014-2018
B.Sc. Israeli Ministry of Education 2-Year Scholarship <i>Excellent students funding program issued by the Israeli government</i>	2014-2016