

Joshua Shay Kricheli

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Occupational Experience

Research Associate

Leibnitz Lab, Syracuse University (SU)

Syracuse, New York, USA

2025-Present

Visiting Gen-AI Researcher

Institute for Creative Technologies (ICT), University of Southern California (USC)

Los Angeles, California, USA

2025

Research Associate

V2 Lab, Arizona State University (ASU)

Tempe, Arizona, USA

2023-2025

Vice President Data Science

Frenn Analytics

Tel Aviv, Israel

2022

AI/ML Research Associate and Teaching Assistant

Ben-Gurion University of the Negev (BGU)

Beer Sheva, Israel

2019-2023

Data Scientist

Dell Technologies

Beer Sheva, Israel

2019-2022

Computer Chips Manufacturing Process Engineer

Intel Corporation

Kiryat Gat, Israel

2018-2019

Education

2025-2027 - Philosophy Doctor (Ph.D.), Computer Science

Advised by Prof. Paulo Shakarian

Syracuse University

Current GPA: 4.0/4.0, Expected graduation in 2027

2023-2025 - Philosophy Doctor (Ph.D.), Computer Science

Advised by Prof. Paulo Shakarian

Arizona State University

GPA: 4.0/4.0, Transferred to SU

2019-2022 - Master of Science (M.Sc.), Computer Science

AI Major, advised by Prof. Gera Weiss and Prof. Shai Arogeti

Ben-Gurion University of the Negev

GPA: 92.26/100, Thesis grade: 94/100

2018-2019 - Computer Science M.Sc. Prerequisites Program

One-year program of core CS courses

Ben-Gurion University of the Negev

GPA: 84.5/100

2014-2018 - Bachelor of Science (B.Sc.), Mechanical Engineering

Control Systems, Mechatronics and Robotics Major

Ben-Gurion University of the Negev

GPA: 84.74/100, Senior GPA: 89.52/100

Publications

AAAI 40th Annual AAAI Conference on Artificial Intelligence ('AAAI 2026'), Singapore

Consistency-based Abductive Reasoning over Perceptual Errors of Multiple Pre-trained Models in Novel Environments

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

VLC Fusion: Vision-Language Conditioned Sensor Fusion for Robust Object Detection

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

Error Detection and Constraint Recovery in Hierarchical Multi-Label Classification without Prior Knowledge

2024

Joshua Shay Kricheli, Khoa Vo, Aniruddha Datta, Spencer Ozgur and Paulo Shakarian

Computer Science M.Sc. Research Thesis

Differential Games for Compositional Handling of Competing Control Tasks

2022

IEEE 29th Mediterranean Conference on Control and Automation ('MED'), Bari, Italy

Composition of Dynamic Control Objectives Based on Differential Games

2021

Joshua Shay Kricheli, Aviran Sadon, Shai Arogeti, Shimon Regev and Gera Weiss

35th Israeli Conference on Mechanical Engineering ('ICME'), Beer Sheva, Israel

SNIC Bifurcation and its Application to MEMS

2018

Joshua Shay Kricheli and Oriel Shoshani

Selected Fellowships, Scholarships, Affiliations and Awards

Ph.D. KG Tan Computer Science Award

Syracuse University fellowship by the SU Alum Innovator Kwang G. Tan

2025-Present

Ph.D. Galileo Project Affiliate, Center for Astrophysics, Harvard University

Employing AI in the scientific search for evidence of extraterrestrial artifacts

2024-Present

Ph.D. IEEE Eta Kappa Nu ('HKN) Engineering Honor Society

ASU Epsilon Beta Chapter of the IEEE honor society for outstanding students

2024-2025

Ph.D. 'Global Security Initiative' 4-Year Fellowship

Fellowship for security-focused research improving capabilities for US national security

2023-2025

M.Sc. Israeli National Science Foundation (NSF) Grant

Research grant for academic teams who contributed outstanding novel work

2023

M.Sc. 'Israel Data Science Initiative' & German 'Helmholtz Data Science Academy' Exchange Program

DL research at the 'Deutsches Zentrum für Luft und Raumfahrt' ('DLR') - Germany's NASA

2022

M.Sc. 'Israeli Smart Transportation Research Center' ('ISTRC') Excellence Scholarship

Technion and Bar-Ilan program with Israel's prime minister's office

2020-2021

M.Sc. 'Agricultural, Biological and Cognitive' ('ABC') Robotics 2-Year Fellowship

BGU fellowship for innovative robotics students serving as teaching assistants

2019-2021

B.Sc. 'Education for Excellence' 1-Year Fellowship

Israeli foundation for historically unrepresented youth for academic excellence

2015-2016

B.Sc. 'Israel Scholarship Education Foundation' ('ISEF') 3-Year Fellowship

Academic excellence and leadership fellowship funded by investors from the United States

2014-2017

B.Sc. Tel-Aviv University (TAU) 4-Year Excellence Scholarship

Excellence in engineering academic scholarship granted by Tel-Aviv University, Israel

2014-2018

B.Sc. Israeli Ministry of Education 2-Year Scholarship

Excellent students funding program issued by the Israeli government

2014-2016