

# Tal Barami

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Ph.D. candidate in the department of [computer science](#) at Ben Gurion University of the Negev. Researcher, interested in solving graphics and vision problems with algorithms and data.

Coding Reading Traveling Sports Gaming



## EDUCATION



### Computer Science, Ph.D.

Ben-Gurion University of the Negev

Advisor: Dr. Omri Azencot

2020 — Present

Deep Learning Saliency Maps Behavior Analysis  
Facial Expressions Action Recognition



### Computer Science, M.Sc.

Ben-Gurion University of the Negev

Advisor: Prof. Andrei Sharf

2018 — 2020

Artificial Intelligence Computer Vision  
Video Processing Object Detection  
Video Games Design



### Software Engineering, B.E.

Ben-Gurion University of the Negev

2014 — 2018

Computer Graphics Software Design Virtual Reality  
Data Science

## PUBLICATIONS (WIP):



### Identification and Quantification of Stereotypical Movements from Video Recordings of ADOS Assessments Using Computer Vision and Deep Learning Techniques

Tal Barami, Hadas Kaiser, Ofri Hadashi, Aviv Slobodkin, Andrei Sharf, Ilan Dinstein

We present a method that utilize computer vision techniques to detect and quantify stereotypical behaviour in children with ASD.



### Variability of Facial Expressions in Children with ASD

Tal Barami, Liora Manelis, Ilan Dinstein

We analyze facial expressions from videos to detect ASD characteristics in children.

## PROFESSIONAL EXPERIENCE



### Researcher

Playtika

2021 — 2022: Playtika Research Group: Pursued the field of feature disentanglement in generative methods for 3D modeling. Developed a segmentation-based method for 3D pose estimation.

2019 — 2021: Data Scientist: Developed models for uplift modeling and churn predictions, as well as internal tools for the automation of research phases such as data acquisition, modeling, analysis, and evaluation.

Python Research Data Science 3D Modeling GANs  
Pose Estimation Uplift Modeling Churn Prediction



### Software Engineer

Mentor Graphics

2016 — 2018: Development and maintenance of features for BB and SFM, top products of the company. Both handle production-line management for large-scale factories around the globe.

Java Spring C# .NET R&D

## TEACHING



### Introduction to Formal Verification Methods



### Principles of Object-Oriented Programming



### Compiler Principles



## **A Skeleton-Based Dataset for ASD Stereotypical Behaviour**

Tal Barami, Aviv Slobodkin, Hadas Kaiser, Ofri  
Hadashi, Andrei Sharf, Ilan Dinstein

We created a dataset of over 30K video samples  
children with ASD, exhibiting stereotypical and non-  
stereotypical behaviours.