

7-FEB-19

NADAV AMIR

Jerusalem, Israel

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Born: 25 August 1982

EDUCATION

The Hebrew University of Jerusalem (HUJI)

The Edmond and Lily Safra Center for Brain Science (ELSC)

PhD Student in Computational Neuroscience

2014-

Interdisciplinary Center for Neural Computation (ICNC): Direct PhD program

Research Topic: Modeling Auditory Information Processing using Dynamical Systems

Advisors:

Prof. Israel Nelken, ELSC & Dpt. Of Neurobiology – Auditory Electrophysiology Lab

Prof. Naftali Tishby, ELSC & School of Computer Science – Machine Learning and Computational Biophysics Lab

The Hebrew University of Jerusalem

The Edmond and Lily Safra Center for Brain Science

M.Sc. in Computational Neuroscience

2014

Final GPA: 95.3/100

Master's Project Topic: Representation of Surprise in Rat Auditory Cortex and Inferior Colliculus

Supervised by Prof. Israel Nelken and Prof. Naftali Tishby, ELSC

The Jerusalem Academy of Music and Dance

B.Mus. in Clarinet Performance

2014

Clarinet Instructors: Prof. Ilan Schul, Gilad Harel

Final GPA: 93.8/100

The Open University of Israel

B.A in Humanities

2013

Final GPA: 91/100 (cum laude)

Area of Concentration: Modern European History

Bachelor Thesis: "Salomon Maimon's Autobiography as a Bildungsroman" (in Hebrew)

Supervised by Prof. Gideon Freudenthal, Tel-Aviv University

The Hebrew University of Jerusalem

B.Sc. In Computer Science, Mathematics, Physics (Triple Major)

2004

Final GPA: 92.6/100 (cum laude)

Honors Program ("Etgar") in Physics

The Israel Arts and Science Academy in Jerusalem (IASA)

2000

Boarding school for gifted students

Extended studies in math, physics, philosophy, music and ethics of science.

SPECIAL COURSES AND WORKSHOPS**Kavli Institute of Theoretical Physics** Quantitative Biology Summer

Course: Neurophysics of Sensory Navigation

August 2018**Janelia Neurotheory Workshop** junior scientist workshop at the Howard

Hughes Medical Institute (HHMI) Janelia Research Campus, Ashburn, VA

September 2016**Brains Minds and Machines** special topic course of the Center for Brains

Minds and Machines (CBBM), the Marine Biological Laboratory, Woods

Hole, MA

May-June 2014**AWARDS AND SCHOLARSHIPS**

Travel and board scholarship, HHMI, Janelia Farm, Neurotheory Workshop

2016

Best poster award, Hebrew University of Jerusalem, science faculty

2016

Gatsby Charitable Foundation Scholarship

2015-

MBL tuition and board scholarship from the Center For Brains Minds and Machines

2014

Scholarship for PhD students at the Interdisciplinary Center for Neural Computation

2010-2016

Rabbis for Human Rights scholarship – The Open University of Israel

2009

Dean's List – Open University

2008-2011

Dean's List – Hebrew University

2002-2003

Full scholarship – Hebrew University

2001**PUBLICATIONS****2017****"A Simple Model of Attentional Blink"**

Nadav Amir, Israel Nelken, Naftali Tishby

arXiv, available at: <https://arxiv.org/pdf/1611.08913.pdf>**2015****"Past-Future Information Bottleneck for Linear Feedback Systems"**

Nadav Amir, Stas Tiomkin, Naftali Tishby

54th IEEE Conference on Decision and Control, Osaka Japan

2014

“What will happen next? Analyzing Theta Sequences in Rat Hippocampus”

Nadav Amir, Guillaume Viejo, Hector Penagos

The Center for Brains Minds & Machines, MIT & Harvard University, Memo No. 024

POSTER PRESENTATIONS

“A Simple Model of Attentional Blink”

The Mind and Life Europe Summer Research Institute

August 22-28, 2016

Chimsee, Germany

“Perception-Action Model for Navigational Learning”

Sensing: From Minds to Machines

Ben Gurion University of the Negev

May 29-June 1, 2016

Be'er Sheva, Israel

Intel Collaborative Research Institute – Computational Intelligence (ICRI-CI), Israel Retreat

May 24-25, 2016

Intel – Haifa, Israel

Karniel Eleventh Computational Motor Control Workshop

Ben-Gurion University of the Negev

June 17-18, 2015

Be'er Sheva, Israel

Jerusalem Brain Community Annual Retreat

May 17-19, 2015

Mitzpeh Ramon, Israel

Edmond and Lilly Safra Brain Center, Annual Retreat
Hebrew University of Jerusalem
February 1-3, 2015
Ein-Gedi, Israel

TEACHING EXPERIENCE

TA - Computation and Cognition, The Hebrew University Instructor: Prof. Yonathan Lowenstein	2016-2018
Advisor –Alpha: the Israel Gifted Students Program	2016-2018

WORK EXPERIENCE

Intel Advanced Summer Internship Data Scientist	2018-
Israel Defense Force – Intelligence technology unit Research and development officer Worked on advanced R&D projects involving digital design, embedded software and electro-optics.	2003-2009

OTHER EXPERIENCE

Amcha – national center for support of holocaust survivors Volunteer	2016-
The Jerusalem Music Academy Symphony Orchestra Clarinet Player	2012-2014
Kav LaOved - hotline for disadvantaged workers Volunteer	2008-2016

LANGUAGES

Hebrew – fluent
English – fluent
German – Intermediate (Goethe Institute Certification Level A2.1)
Arabic – Basic