

# Amit Haim Bermano

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## Personal Details

Birth date: 20.11.1980  
Nationality: Israel  
Marital status: married

## Education & Research

### Since 07.2018: Senior Lecturer (Assistant Professor)

The Blavatnik School of Computer Science, Tel-Aviv University

- Research interests include computer graphics, geometry processing, additive manufacturing, augmented reality, medical imaging and machine learning.

### 02.2016-07.2018: Post-Doctoral Researcher

Princeton Graphics Group, Department of Computer Science, Princeton University, Princeton, NJ

- Hosted by Prof. Szymon Rusinkiewicz and Prof. Thomas Funkhouser
- Focused on geometry processing and additive manufacturing

### 07.2015-01.2016: Post-Doctoral Researcher

Disney Research Zurich, Zurich

- Hosted by Prof. Dr. Markus Gross. Collaborated mainly with Dr. Anselm Grundhöfer
- Focused on real-time facial augmentation

### 06.2015: Research Internship

Tel-Aviv University, Tel-Aviv

- Worked with Prof. Daniel Cohen-Or
- Focused on shape analysis of large collections

### 07.2011 – 05.2015: Dr.Sc., Computer Science

ETH Zurich, Department of Computer Science, in collaboration with Disney Research Zurich

- Thesis: *Geometric Methods for Realistic Facial Animation of Faces*
- Responsibility for maintaining the lab's fabrication devices, including four 3D printers and laser cutter
- Advisor: Prof. Dr. Markus Gross
- Co-Examiners: Prof. Dr. Olga Sorkine-Hornung, Prof. Dr. Bernd Bickel

### 07.2010-09.2010: Research Internship

Disney Research Zurich, Zurich

- Worked with Prof. Wojciech Matusik and Dr. Ilya Baran
- Focused on appearance design for additive manufacturing

### 10.2008-06.2011: M.Sc., Computer Science

Technion – Israel Institute of Technology, Department of Computer Science

- Thesis: *Online Reconstruction of 3D Objects from Arbitrary Cross-Section Data*
- Advisor: Prof. Craig Gotsman
- GPA: 96.8%; Research grade: 95%

### 10.2003-10.2008: B.Sc., Computer Science

# Amit Haim Bermano

Technion – Israel Institute of Technology, Department of Computer Science

- Graduated **Summa Cum Laude**, GPA: 92.1%
- Two Semesters on President's List
- Two Semesters on Dean's List

## Professional Experience

### Instructor

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|-------------------------------------------------------------------|-----------------------------|-------------------|
| ▪ Algorithms for Modeling, Fabrication and Printing of 3D Objects | Tel-Aviv University, Israel | WS 2018,2019,2020 |
| ▪ Advanced Seminar in Computer Graphics                           | Tel-Aviv University, Israel | WS 2018,2019,2020 |
| ▪ Computer Structure                                              | Tel-Aviv University, Israel | SS 2020,2021      |
| ▪ Workshop in Machine Learning Applications for Computer Graphics | Tel-Aviv University, Israel | WS 2020           |

### Co-Instructor

- |                     |                |         |
|---------------------|----------------|---------|
| ▪ Computer Graphics | Princeton, USA | SS 2017 |
|---------------------|----------------|---------|

### Teaching Assistant

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|---------------------------------------------------------------|-------------------------|---------------------------|
| ▪ Computer Graphics                                           | Princeton, USA          | SS 2018                   |
| ▪ Physically Based Simulation                                 | ETH Zurich, Switzerland | FS 2011, 2012, 2013, 2014 |
| ▪ Introduction to Computer Science for Mechanical Engineering | ETH Zurich, Switzerland | SS 2011, 2012, 2013, 2014 |
| ▪ Computer Graphics 1                                         | Technion, Israel        | WS 2008, 2009             |
| ▪ Combinatorics and Graph Theory                              | Technion, Israel        | SS 2009,2010              |

### Supervision

- |                                                    |                               |
|----------------------------------------------------|-------------------------------|
| ▪ Lilach Perry, Ph.D , Tel-Aviv University         | With Prof. Daniel Cohen-Or    |
| ▪ Ofir Bar-Tal, M.Sc, Tel-Aviv University          |                               |
| ▪ Shahaf Goren, M.Sc, Tel-Aviv University          |                               |
| ▪ Ron Mokady, Ph.D candidate, Tel-Aviv University  | With Prof. Daniel Cohen-Or    |
| ▪ Amir Barda, M.Sc, Tel-Aviv University            |                               |
| ▪ Rola Amer, Ph.D Student , Tel-Aviv University    |                               |
| ▪ Ben Mamman, Ph.D, Candidate, Tel-Aviv University |                               |
| ▪ Rinon Gal, Ph.D, Tel-Aviv University             | With Prof. Daniel Cohen-Or    |
| ▪ Moab Arar, Ph.D, Tel-Aviv University             | With Prof. Ariel Shamir (IDC) |

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## Past Students

Mattan Serry (Ms.C 1/21), Dor Amran (Ms.C 2/21), Yotam Erel (Ms.C 2/21),  
Dvir Yerushalmi (3/21)

## Peer Review

- Committee:
  - SGP, 2019
  - CAD/Graphics, 2017
  - Shape Modeling International, 2016
  - SIGGRAPH Asia, Technical Briefs & Posters, 2017, 2018
  - Symposium on Computer Animation, 2016
- Tertiary:
  - UIST 2019
  - ACM SIGGRAPH, 2015, 2016, 2017, 2018
  - ACM SIGGRAPH Asia, 2013, 2015, 2016, 2018, 2019
  - Computer Graphics Forum, 2016
  - Computer Graphics International, 2013
  - Computer Graphics Theory and Applications, 2014
  - Computer & Graphics, 2017
  - Eurographics, 2013, 2015, 2017
- Grants:
  - ISF, 2019

## Tutoring

- Physics 2, reinforcement course by the student body, Technion, Israel August 2008
- Extensive tutoring
  - groups of 1-5 students 02.2004 – 09.2008
  - Various bachelor level courses in math, physics and computer science

## Non – Academic

- PrintSyst, Israel 08.2019-
  - Chief Scientist
- Axilion, Israel 08.2019-
  - Chief Scientist
- Geometrika, Israel
  - Consultancy in the field of geometry processing 01.2011 – 06.2011
  - Single handedly implemented and integrated an automatic mesh quadrangulation system

# Amit Haim Bermano

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Intel, Intel development center, Haifa, Israel

- Design Automation engineer (internship) in the field of performance verification
  - Advanced circuit analysis
  - Extensive TCL and PERL programming in a Linux environment
  - Consultancy to circuit engineers
- Twice received highest ranking (**Outstanding** - top 5%) in annual evaluations

05.2004 – 08.2008

Israel Defense Force, Israel

- Instructor of electronic airborne systems in the Israeli Air Force

03.1999 – 05.2003

## Language Skills

- Hebrew – Mother tongue
- English – Proficient (level C2 on the European Language Scale)
- German – Intermediate (level B1 on the European Language Scale)