Yeara Kozlov

Contact Information

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Birmensdorferstr. 199
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Switzerland

Education

ETH Zürich & Disney Research — Zurich, Switzerland
PhD Candidate in Computer Science — October 2014 - 2019
Department of Computer Science, Computer Graphics Lab
Disney Research—Studios, Capture and Effects Research Groups
Thesis Topic: *Augmenting Performance Capture with Physically-Based Simulation.*
Advisors: *Prof. Markus Gross*

Universität Des Saarlandes — Saarbrücken, Germany
M.Sc. in Visual Computing — July 2014
Master Thesis: *Analysis of Energy Regularization for Harmonic Surface Deformation*
Advisors: *Dr-Ing. Tino Weinkauf, Dr-Ing. Janick Martinez Esturo*

Technion - Israeli Institute of Technology — Haifa, Israel
B.Sc. in Physics — March 2011

Publications

Peer Reviewed Publications

- Yeara Kozlov, Derek Bradley, Moritz Bächer, Bernhard Thomaszewski, Thabo Beeler, and Markus Gross. Enriching facial blendshape rigs with physical simulation. volume 36, 2017
- Amit H. Bermano, Thabo Beeler, Yeara Kozlov, Derek Bradley, Bernd Bickel, and Markus Gross. Detailed spatio-temporal reconstruction of eyelids. volume 34, pages 44:1–44:11, New York, NY, USA, July 2015. ACM

Technical Reports

- Yeara Kozlov, Hongyi Xu, Moritz Bächer, Derek Bradley, Markus Gross, and Thabo Beeler. Data-driven physical face inversion, 2019
- Yeara Kozlov, Janick Martinez Esturo, Hans-Peter Seidel, and Tino Weinkauf. Regularized harmonic surface deformation. *CoRR*, abs/1408.3326, 2014

Research Experience

ETH Zürich and Disney Research—Studios — Zurich, Switzerland
Research Assistant — October 2014 - May 2019

Research assistant in the *Capture and Effects* group. The group develops new technologies to create digital humans for feature film post-production. My research is focused on capturing the physics of human faces: estimating the physical makeup of the human face from capture data and developing methods to synthesize realistic face motion.

Max Planck Institute for Informatics — Saarbrücken, Germany
Student Research Assistant — March 2013 - November, 2013

Student research assistant in the *Feature-Based Data Analysis For Computer Graphics and Visualization* research group. I was the main developer of *Persistence1D*, a library for finding topological features in one-dimensional data and reconstructing smooth functions based on filtered features. The project was used within the research group and by the group's research partners. This open-source project is available at: http://www.csc.kth.se/~weinkauf/notes/persistence1d.html

Department Service

ETH Zürich — Zurich, Switzerland
CSNOW Co-leader — January 2016 - April 2019

CSNOW is the Network of Women in Computer Science, part of the Department of Computer Science in ETH. The goal of this organization is to encourage the participation of women in computer science. The leaders of the organization are responsible for coordinating all of the originations activities.

Professional Experience

Ceva DSP — Herzelia, Israel
Quality Assurance Engineer — 2011 - 2012

- Developed a distribution system for running automated testing.
- Maintained automatic testing systems.
- Designed tests in assembly and C for an embedded system software development toolchain.

Telmap — Herzelia, Israel
Quality Assurance Engineer — 2006 - 2007

- Planned and executed testing procedures for navigation software, on multiple mobile platforms.
- Developed training plans for new team members.

Technical Proficiency

- Programming languages: C++, Python.
- Experience with QT4, OpenCV, OpenMP, MATLAB, Eigen, KNITRO
- Non linear optimization, performance capture, reconstruction, geometry processing.

Language Proficiency

- English: Fluent
- German: Conversational
- Hebrew: Fluent

Nationality

- Israeli