Michael Rabinovich

Curriculum Vitae

ETH Zurich
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Research interests

Geometry processing, discrete differential geometry, digital fabrication and architectural geometry.

Education

2016 – present	ETH Zurich, Switzerland **PhD in Computer Science** Supervised by Prof. Olga Sorkine-Hornung.
2014 – 2016	ETH Zurich, Switzerland **MSc in Computer Science** Thesis title: Scalable Locally Injective Mappings. Supervised by Prof. Olga Sorkine-Hornung.
2012 – 2014	The Open University of Israel, Israel **BSc in Mathematics**

Publications

[1] The shape space of discrete orthogonal geodesic nets. Michael Rabinovich, Tim Hoffmann and Olga Sorkine-Hornung. ACM Transactions on Graphics, Vol. 37(8), 2018 (*ACM SIGGRAPH ASIA 2018 issue*).

[2] Discrete geodesic nets for modeling developable surfaces. Michael Rabinovich, Tim Hoffmann and Olga Sorkine-Hornung. ACM Transactions on Graphics, Vol. 37(2), 2018.

[3] Scalable locally injective mappings. Michael Rabinovich, Roi Poranne, Daniele Panozzo and Olga Sorkine-Hornung. ACM Transactions on Graphics, Vol. 36(2), 2017.

Honors and Awards

2014	ETH master excellence scholarship, ETH Zurich.
2014	Deans list of excellence, The Open University of Israel.
2014	"Young Weizmann Scholars" scholarship, given by The Weizmann Institute of Science to outstanding Israelis undergraduate students. The only mathematics student chosen that year (2014).
2011	Unit Excellence Award given for innovative technology (Israel Defense Forces, 8200 unit).

Selected talks

09.2019	International Geometry Workshop, Strobl, Austria.
08.2019	SIGGRAPH Doctoral Consortium, Los Angeles, United Stated. Selected participant as 1 of the 8 best soon-to-be graduating PhD students in computer graphics.
07.2019	SIAM Conference on Applied Algebric Geometry, Bern, Switzerland. Invited speaker for a minisymposium on "Geometric design for fabrication".
07.2019	Symposium on Geometry Processing, Milan, Italy. Giving a graduate school course on Nets in Discrete Differential Geometry.

12.2018	ACM SIGGRAPH ASIA, Tokyo, Japan.
08.2018	ACM SIGGRAPH, Vancouver, Canada.
09.2017	International Geometry Workshop, Obergurgl, Austria.
08.2018	ACM SIGGRAPH, Los Angeles, United States.

Reviewer

Journals:	ACM Transactions on Graphics, Computer Graphics Forum, Computer Aided Geometric Design
Conferences:	ACM SIGGRAPH, ACM SIGGRAPH ASIA, EUROGRAPHICS,

Other work experience

2012 – 2014	Security Researcher, NSO Technologies Discovering and exploiting security holes in mobile devices on various OS and architectures.
2011 – 2012	Project Manager and Technical Leader, Israeli Defense Forces, 8200 Unit Technical leader in the fields of designing and implementing windows kernel drivers and debugging low-level components. Creating and delivering advanced workshops on Windows Internals and Windows Kernel Development
2010 – 2011	R&D Leader, Israeli Defense Forces, 8200 Unit Managing a team of three experienced developers. Designing and developing large-scale systems.
2008-2010	Software engineer, Israeli Defense Forces, 8200 Unit Specializing in developing low-level components in C and C++ and implementing various network protocols.

Technical experience

- Vulnerabilities research and reverse engineering (x86, ARM).

- Specialist in OS internals and debugging drivers and low-level components (windows/linux/iOS).

- Extensive knowledge in computer networks and various network protocols.

- C,C++ and Python - Over 5 years of development experience.

- Matlab for visual computing.

Languages

Hebrew (native), English (fluent), German (conversational).

Hobbies

Snowboarding, climbing, film enthusiast.