

Aviv Segall

avivsegall@gmail.com

EDUCATION

Technion - Israel Institute of Technology, Haifa — *BSc in computer science (97)*

March 2011- March 2014

Technion - Israel Institute of Technology, Haifa — *MSc in computer science (95)*

March 2014 - July 2016

Title: 2D Simulation and Mapping using the Cauchy-Green Complex Barycentric Coordinates

Supervisors: Mirela Ben-Chen

Description: The thesis focuses on using a special kind of coordinates, derived from the Cauchy integral theorem, for simulating 2D fluids flows and finding conformal mappings between 2D shapes.

PUBLICATIONS

- **Iterative closest conformal maps between planar domains.**
Aviv Segall and Mirela Ben-Chen, *Computer Graphics Forum*, volume 35, pages 33–40, 2016.
- **Line accessibility of free form surfaces.**
Aviv Segall, Jonathan Mizrahi, Yong Joon Kim, and Gershon Elber, *Graphical models* 76(5):301–311, 2014.
- **Hele-shaw flow simulation with interactive control using complex barycentric coordinates.**
Aviv Segall, Orestis Vantzos, and Mirela Ben-Chen, *Proceedings of the ACM SIGGRAPH/Eurographics Symposium on Computer Animation*, pages 85–95. Eurographics Association, 2016.

EXPERIENCE

ETH, Zurich - PhD student in computer graphics

May 2022- present

- Focusing on garment design & fabrication.

Google, Zurich — *Fullstack Engineer*

January 2018- April 2022

- Worked with several teams across the globe to improve the quality of the user's location inference by implementing a strong signal for a correct inference.

- Conducted several experiments to find the best balance between the quality and the amount of collected data for improving the location inference.
- Developed an Android framework for communicating between the native app and a web page running under a WebView.
- Worked on the integration of the user's location history in Android Google Photos.

Waze, Tel Aviv— Backend Engineer

May 2017- January 2018

- Worked on the backend side of the Waze Carpool app, developing algorithms for matching between potential drivers and riders.
- Took part in an on-call rotation, monitoring the service's health, responding to and fixing bugs.
- Collaborated with the frontend team to define APIs and develop a feature from design to deployment in production.
- Worked on improving the quality of the voice commands in Waze, analyzing failure cases and suggesting improvements to the scoring function to provide better recognition.

Technion - Israel Institute of Technology, Haifa — Teaching Assitant

2013 - 2016

Teaching assistant in the computer science faculty (taught the courses “Introduction to Computer Science” and “Computer Organization and Programming”)

Intel, Haifa — Engineering intern

Summer 2013

Worked on integration of SAT solver for scheduling processor tests on several machines.

Intel, Haifa — Software Engineer student

2011 - 2013

Developed instrumentation tools for a processor simulator.

SKILLS

[Programming languages](#)

C/C++, Java, MATLAB, python, javascript, typescript

[Operating Systems](#)

Windows, Unix/Linux

LANGUAGES

Hebrew, English