

# Yedidya Levi, Ph.D

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## Education

**Ph.D. (Special PhD track), Civil and Environmental Engineering, Technion – Israel Institute of Technology, Haifa** 2012-2017

- Academic advisors: Prof. Yehiel Rosenfeld, Prof. Shlomo Bekhor
- Research topic: "Optimization model for new urban arrays on regions without topographic constraints: The case of artificial islands"

**B.Sc., Civil and Environmental Engineering, Technion – Israel Institute of Technology, Haifa** 2008-2012

- Bachelor of Science (specializing in transportation engineering)
- Graduated Summa Cum Laude
- Total average: 91.4/100
- 4th Year Final Project Airspace-Conflict Evaluating Model for the Ben-Gurion Airport (Advisor: Prof. Shlomo Bekhor)

## Professional Experience

**Postdoctoral Researcher at Future Mobility Lab – Ariel University** 2019 - Present

- Development of an evaluation tool of future transportation scenarios, considering new transportation technologies and policies.
- Exploring and analyzing large data sets using Python (mainly with Pandas)
- Using an activity-based simulation tool, Simmobility, where the supply part is based on mesoscopic traffic simulation, as the main engine in the evaluation process.
- Calibrating the simulation for Tel-Aviv metropolitan using FMS survey data.

**Lecturer at Ariel University** 2019 - Present

- Transportation Planning Lab, (4434530), Faculty of Engineering, Ariel University: A practical course which deals with developing transportation model, based on survey data, using advance Excel tools, Python Biogeme and Aimsun Next
- Planning and Construction Management (4430710), Faculty of Engineering, Ariel University: The course deals with different management aspects in construction sector, including: tenders, contracts, cost estimation, bill of quantities, etc.

**Senior Transportation Analyst at Mobility Insight (Mobi)** 2017-2019

- Traffic data analysis using multiple sources (RF, LPR, Cellular. etc)
- Development and implementation of prediction and optimization models for urban systems
- Development of dynamic assignment model, using hybrid (Mesoscopic-Microscopic) simulation, for a large urban network

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- Product team leader

<b>Lecturer at SCE</b>	2019
Construction Management (1005001), The Department of Civil Engineering, Shamoon College of Engineering	
<b>Final Projects Supervisor at SCE</b>	2019
4th Year Final Project on traffic engineering (1090331), The Department of Civil Engineering, Shamoon College of Engineering	
<b>Lecturer at the Technion</b>	2017-2018
Introduction to Construction Management (014606), Faculty of Civil and Environmental Engineering, Technion	
<b>Teaching and Principle Course Assistant</b>	2011-2016
Introduction to Construction Management (014606) Faculty of Civil and Environmental Engineering, Technion	
<b>Intern at Yenon – Research &amp; Design Ltd.</b>	2010-2012
Experience in the design of large-scale transportation projects	

## Prizes and Awards

Vivian Konigsberg Award for Excellence in Teaching	2012,2016
The Esther and Mordechai Rubinstein Scholarship for Research in Economic aspects of construction work	2015
Ing Izek Hershkovitz Award for Excellence in Transportation	2012
Ronen Cohen Award for Excellence in the course "Elastic Pavements"	2012
Golda and Haim Livneh Award for Excellence in the course "Introduction to Transportation Engineering"	2010

## Publications

Yedidya Levi, Shlomo Bekhor, Yehiel Rosenfeld, " <b><i>A multi-objective optimization model for urban planning: The case of a very large floating structure</i></b> ", Transportation Research Part C: Emerging Technologies 98 (2019): 85-100. (IF: 3.968)	2019
Yedidya Levi, Shlomo Bekhor, Yehiel Rosenfeld, " <b><i>A Multi-objective optimization model for urban planning: the case of a very large floating structure</i></b> ", submitted to the 4 <sup>th</sup> symposium of the European Association for Research in Transportation – September 2015, Copenhagen (HEART2015)	2015

## Miscellaneous

<b>Magen David Adom in Israel (MDA)</b>	2000-Present
<ul style="list-style-type: none"><li>• Medical volunteer (E.M.T)</li><li>• Ambulance driver</li></ul>	

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## Israel Defense Forces (IDF)

2004-2007

- Full term military service, active reserve service
- Platoon leader in a combat infantry unit

## Professional software

- Python
- Matlab
- Aimsun Next
- Transcad

## Languages

- Hebrew (native speaker)
- English (fluent)
- Portuguese (fluent)