

## AMIR BRUDNER

School of Business Administration,  
The Hebrew University of Jerusalem  
Email address: [amir.brudner@mail.huji.ac.il](mailto:amir.brudner@mail.huji.ac.il)  
Personal website: <https://amirbrd.rbind.io/>

## Curriculum Vitae

### Research Interests

Urban transport policy, Operations Research, Game Theory, Automated Vehicles, Machine Learning.

### Academic Education

*PhD Candidate*, Operations Research, School of Business Administration, The Hebrew University of Jerusalem, 2022 (exp.)  
Topic: Evaluating transportation markets through game theory.  
Advisor: Professor Nicole Adler.

*Master Thesis*, Industrial Engineering, Ben Gurion University, 2016.  
Topic of Masters Thesis: Investing in research and teaching facilities in an academic institute - an optimal control and differential game model.  
Advisor: Professor Arie Gavious.

*M.B.A.*, Business Administration, The Hebrew University of Jerusalem, *magna cum laude*, 2009. Finance and Accounting.

*B.Sc.*, Industrial Engineering, The Jerusalem college of Engineering, *summa cum laude*, 2006. Information System.

### Professional education

*MIT Professional*, Modeling and simulation of transportation networks with Prof. Moshe Ben-Akiva, MIT professional education, Massachusetts Institute of Technology, August 2017.

### Academic Employment

*2016-Present* **Lecturer**, School of Business Administration, The Hebrew University of Jerusalem.  
Courses: Operations Management, Quantitative Models (in English).

*2011–2017* **Lecturer**, Department of Industrial Engineering, The Jerusalem College of Engineering.  
Courses: Methods Engineering, Control and Quality Assurance.

**2008–Present Teaching Assistant**, Department of Industrial Engineering, The Jerusalem College of Engineering.  
Courses: Information Systems Analysis and Planning ,Statistics, Operations Research 1 and 2, Engineering Optimization, Database Management, Internet Developing, Control and Quality Assurance, Intro to Industrial Engineering Management.  
**Award for Excellence in Teaching (2020,2021).**

## Professional Employment

**2007–2016 System Analysis Team Leader**, The Jerusalem College of Engineering. Forming the System Analysis division within the IT department.

## List of Publications

Adler, N., Brudner, A. & Proost, S., 2021. A review of transport market modeling using game-theoretic principles. *European Journal of Operational Research*, 291(3), pp.808-829.

## Submitted papers

Adler, N., Brudner, A., Gallotti, R., Privitera, F., & Ramasco, J.J. Understanding collusion in multi-airport systems.

Brudner, A., & Gavious, A. A Dynamic Model of Investment in Research and Teaching Facilities in Academic Institutions.

Brudner, A., Residential parking management: a review of the literature, some practices and recommendations.

## Selected Conference Papers and Invited Presentations

**2021** "Adler, Nicole and Brudner, Amir: Creating equitable transport markets with AVs". Presented at the 2021 Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting in Anaheim, CA, USA (October 2021) and at the Operations and Research Society of Israel (ORSIS) annual meeting, Technion, Haifa, Israel (August 2021).

**2019** "Brudner, Amir; Gallotti, Riccardo; Privitera, Filippo; J. Ramasco, Jose and Adler, Nicole: Big data and platform competition: The case of a multi-airport system". Presented at the Annual School and Conference of the International Transportation Economics Association (ITEA), Paris School of Economics and at the 30<sup>th</sup> European Conference on Operational Research (EURO), Dublin, Ireland (June 2019).

**2018** "Adler, Nicole and Brudner, Amir: Estimating High Speed Rail and Airport Catchment Areas". Presented at the 14<sup>th</sup> International Conference on Industrial Logistics (ICIL), Beer-Sheva, Israel (May 2018).

## Academic and Professional Experience and Appointments

- 2018*                    **The Intel Big Data Initiative coordinator**, The Hebrew University of Jerusalem, School of Business Administration.
- 2011–2017*           **Academic Supervisor for Final Projects**, Department of Industrial Engineering, The Jerusalem College of Engineering.  
Supervises project in Operations Research and Information Systems.

## Workshops

- 2017–2019*           **Air Transport and Regional Development (ATARD).**

## Consultations

- 2021-*                    Ministry of Transport, **Member of the strategic national parking committee.**
- 2018-*                    **Transportation policy advisor on parking policies** to municipalities (Jerusalem, Tel Aviv, Nahariya and more) and government officials (Ministry of Transport, Ministry of Finance, Prime minister's office, Planning committees).

## Professional Associations Membership

The Institute for Operations Research and the Management Sciences (INFORMS)  
Transportation Science and Logistics (TSL) Society at INFORMS  
Operations Research Society of Israel (ORSIS)  
The Israeli Association of Transportation Research

## Grants and Awards

- PhD*                    The Hebrew University of Jerusalem, **University President's Full Scholarship of Distinction.**  
**The Gal-Edd foundation scientific publication award**, 2021.  
**Best scientific presentation**, The Israeli Smart Transportation Research Center (ISTRC) 2<sup>nd</sup> student conference, 2021.  
**The Israeli Smart Transportation Research Center (ISTRC) grant for 2020-2021.** 100,000 NIS (30,000 US Dollars).
- Award for **Excellence in Teaching** at Azrieli College of Engineering (2020,2021).
- Masters*                The Hebrew University of Jerusalem School of Business Administration, **Dean's List Award.** Graduated *magna cum laude*, with a GPA of 94.96.

*Undergraduate* The Jerusalem college of Engineering Department of Industrial Engineering,  
**Dean's List Award** in all years. **Academic Excellence Scholarship** in all years.  
Graduated *summa cum laude*, 1<sup>st</sup> in class year with a GPA of 95.15.