Gianmarco Andreana

Hebrew University of Jerusalem
Business School
Mount Scopus
Jerusalem, Israel, 97654

Gianmarco.Andreana@mail.huji.ac.il
Personal website
Linkedin
Phone: +39 347 3436343

Research Interests	**Air transport, applied game theory, operations research**
	Assessment of airline competition equilibria under different game-theoretic settings. Evaluation and development of air transport policies. Mitigation of air transport climate impact. Development of algorithms for single and multi-stage game-theoretic models. Airport noise assessment and reduction. Air traffic demand estimation.

Employment

Hebrew University of Jerusalem
Business School

Post-doctoral Researcher	January 2023 – present
Lecturer	January 2023 – present

Education

University of Bergamo & Pavia

Ph.D., Applied Economics and Management	March 2023

Supervisor: Prof. Nicole Adler
Tutor: Prof. Gianmaria Martini
Field: Air Transport Competition

Dissertation: "Externalities in the Aviation Indutry"
Evaluation: "Excellent"
Dissertation committee: Prof. Stef Proost (KU Leuven)
  Prof. Claudio Ferrari (University of Genova)

Hebrew University of Jerusalem
Business School

Visiting Research Fellow	June 2021 – October 2022

University of Bergamo

M.S.E., Management Engineer	September 2019

University of Bergamo

B.S.E., Management Engineer	September 2017

Publications

Journal papers (peer reviewed)

Adler, N., & **Andreana, G.** (2023). "Aiding airlines for the benefit of whom? An applied game-theoretic approach". *European Journal of Operational Research.*

Andreana, G., Gualini, A., Martini, G., Porta, F., & Scotti, D. (2021). "The disruptive impact of COVID-19 on air transportation: An ITS econometric analysis". *Research in Transportation Economics*, 90, 101042.

Working papers

de Jong, G., Adler, N., & **Andreana, G.**. "Air Transport Demand in Europe and North-America: Estimation and Application in an Aviation Environmental Policy Game". *Forthcoming.*

Adler, N., & **Andreana, G.**, de Jong, G. "Competing on Emission Charges". *Forthcoming.*

Andreana, G., Grampella, M., Martini, G., & Scotti, D. (2022)." A General and Simplified Methodology to Define Airport Noise-Influenced Zones and a Measurement of Related Social Costs". *Available at SSRN 4097434.*

Awards

ISTRC Conference Grant Summer 2023	
The Israeli Smart Transport Research Center	2023
TSL Cross Regional Grants	
Informs, Transportation Science and Logistics	2022
AAS Best Student Presentation Competition	
Informs, Aviation Application Section	2022
Best Paper by a Junior Researcher	
International Transport Economics Association (ITEA)	2022
Giovanni Manera Fellowship	
University of Pavia	2022
Discrete Choice Analysis course tuition scholarship	
Ecole Polytechnique Fédérale de Lausanne (EPFL)	2022
Best student paper award	
24th *ATRS Worldwide*	2021

Conferences **2023**

2023 INFORMS Annual Meeting, Phoenix, Arizona, USA
> **Session Chair: AAS Best Student Presentation Competition**
> **Paper**: "Air Transport Demand in Europe and North America: Estimation and Application in an Aviation Environmental Policy Game"

$11^{th} hEART$ *Symposium of the European Association for Research in Transportation, ETH Zurich, Switzerland*
> **Paper**: "Competing on Emission Charges"

$4^{th} SoAR$ *Symposium on Aviation Research, Toulouse, France*
> **Paper**: "Competing on Emission Charges"

2022

2022 INFORMS Annual Meeting, Phoenix, Arizona, USA
> **Paper**: "Competing on Emission Charges"
> (**AAS Best Presentation Award**)

International Transportation Economics Association (ITEA), Toulouse, France
> **Paper**: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"
> (**Best Student Paper**)

$3^{rd} SoAR$ *Symposium on Aviation Research, Bergamo, Italy*
> **Organization committee**
> **Paper**: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"

2021

2021 INFORMS Annual Meeting, Anaheim, California, USA
> **Paper**: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"

$24^{th} ATRS$ *Worldwide, Sidney, Australia*
> **Paper**: "A general and simplified methodology to define airport noise influenced zones and measure the related social cost"
> (**Best Student Paper**)

Teaching	**The Hebrew University of Jerusalem**
	Lecturer
	Quantitative Models (M.B.A. 55815), Spring 2023
	University of Bergamo
	Teaching Assistant
	Health Economics and Policy (M.S.E. 148009-M2), Spring 2020, Spring 2021
	University of Bergamo
	Teaching Assistant
	Market Regulation and Health Care (M.S.E. 37186-ENG), Fall 2020, Fall 2021
	University of Bergamo
	Tutor
	Summer School in Applied Health Econometrics and Health Policy, July 2020
	University of Bergamo
	Teaching Assistant
	Economics (B.S.E. 22045), Fall 2019, Fall 2020, Fall 2021, Fall 2022
	University of Bergamo
	Teaching Assistant
	Health Economics (B.S.E. 95010), Fall 2019, Fall 2020

Training	**International Transportation Economics Association (ITEA)**	
	Transportation Economics School	2022
	Ecole Polytechnique Fédérale de Lausanne (EPFL)	
	Discrete Choice Analysis course – Predicting Individual Behavior	
	and Market Demand	2022
	Advanced Risk and Portfolio Management (ARPM)	
	Bootcamp	2020
	University of Bergamo	
	Summer School Applied Health Econometrics and Health Policy	2018
	International Project Management Association (IPMA)	
	Introductory Level Certificate	2018

Reviewer Activity	**Journal reviews**
	Transportation research part A: Policy and Practice (active – 7 reviews)
	Journal of Air Transport Management (active – 14 reviews)
	Science Progress (2023 – 1 review)

Professional Societies	**Institute for Operations Research Management Science (INFORMS)** *Member*, 2019 – present
	INFORMS Aviation Application Section (AAS) *Best student presentation award committee*, 2023 – present *Member*, 2019 – present
	International Transportation Economics Association (ITEA) *Member*, 2022 – present
	Operations Research Society of Israel (ORSIS) *Member*, 2022
	Italian Society of Economists (SIE) *Member*, 2019 – present
	Italian Society of Transport Economists (SIET) *Member*, 2019 – present
Languages and Skills	Italian (native), English (advanced) Python, Pyomo, Mathematica, R, Julia, LaTeX, QGIS, Microsoft Office, Microsoft Windows
References	Nicole Adler Business School Hebrew University of Jerusalem Nicole.Adler@mail.huji.ac.il	Gianmaria Martini Department of Economics University of Bergamo gianmaria.martini@unibg.it

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