

Gianmarco Andreana

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Department of Economics
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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

University of Bergamo

Department of Economics
Post-doctoral Researcher
Lecturer

March 2024 – present

March 2023 – present

Hebrew University of Jerusalem

Business School
Post-doctoral Researcher
Lecturer

January 2023 – January 2024

January 2023 – January 2024

Education

University of Bergamo & Pavia

Ph.D., Applied Economics and Management
Supervisor: Prof. Nicole Adler
Tutor: Prof. Gianmaria Martini
Field: Air Transport Competition

March 2023

Dissertation: "Externalities in the Aviation Industry"

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)	
	Andreana, G. , Grampella, M., Martini, G., & Scotti, D. (2024).” Airport noise assessment and mitigation: A simple and flexible methodology”. <i>Case Studies on Transport Policy</i> .	
	Adler, N., & Andreana, G. (2023). ”Aiding airlines for the benefit of whom? An applied game-theoretic approach”. <i>European Journal of Operational Research</i> .	
	Andreana, G. , Gualini, A., Martini, G., Porta, F., & Scotti, D. (2021). ”The disruptive impact of COVID-19 on air transportation: An ITS econometric analysis”. <i>Research in Transportation Economics</i> , 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”. <i>Forthcoming</i> .	
Awards	Adler, N., & Andreana, G. , de Jong, G. ”Competing on Emission Charges”. <i>Forthcoming</i> .	
	ISTRC Conference Grant Summer 2023	
	<i>The Israeli Smart Transport Research Center</i>	2023
	TSL Cross Regional Grants	
	<i>Inform, Transportation Science and Logistics</i>	2022
	AAS Best Student Presentation Competition	
	<i>Inform, Aviation Application Section</i>	2022
	Best Paper by a Junior Researcher	
	<i>International Transport Economics Association (ITEA)</i>	2022
	Giovanni Manera Fellowship	
	<i>University of Pavia</i>	2022
	Discrete Choice Analysis course tuition scholarship	
	<i>Ecole Polytechnique Fédérale de Lausanne (EPFL)</i>	2022
	Best student paper award	
	<i>24th ATRS Worldwide</i>	2021

Conferences **2024**

5th SoAR Symposium on Aviation Research, Luxembourg, Luxembourg

Paper: "Air Transport Demand in Europe and North America: Estimation and Application in a Game-Theoretical Analysis of Slot Values"

Discussant: "Terminal Airspace Scheduling Optimization with Environmental Considerations" by W. Ng

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"

11th hEART Symposium of the European Association for Research in Transportation, ETH Zurich, Switzerland

Paper: "Competing on Emission Charges"

4th 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)

3rd 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"

24th 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	University of Bergamo <i>Lecturer</i> Industrial Organization (M.S.E. 37210-1), Spring 2024	
	The Hebrew University of Jerusalem <i>Lecturer</i> Quantitative Models (M.B.A. 55815), Spring 2023	
	University of Bergamo <i>Teaching Assistant</i> Health Economics and Policy (M.S.E. 148009-M2), Spring 2020, Spring 2021	
	University of Bergamo <i>Teaching Assistant</i> Market Regulation and Health Care (M.S.E. 37186-ENG), Fall 2020, Fall 2021	
	University of Bergamo <i>Tutor</i> Summer School in Applied Health Econometrics and Health Policy, July 2020	
	University of Bergamo <i>Teaching Assistant</i> Economics (B.S.E. 22045), Fall 2019, Fall 2020, Fall 2021, Fall 2022	
	University of Bergamo <i>Teaching Assistant</i> Health Economics (B.S.E. 95010), Fall 2019, Fall 2020	
	International Transportation Economics Association (ITEA) <i>Transportation Economics School</i>	2022
	Ecole Polytechnique Fédérale de Lausanne (EPFL) <i>Discrete Choice Analysis course – Predicting Individual Behavior and Market Demand</i>	2022
	Advanced Risk and Portfolio Management (ARPM) <i>Bootcamp</i>	2020
Training	University of Bergamo <i>Summer School Applied Health Econometrics and Health Policy</i>	2018
	International Project Management Association (IPMA) <i>Introductory Level Certificate</i>	2018

Reviewer Activity	Journal reviews <i>Transportation research part A: Policy and Practice</i> (7 reviews) <i>Transportation research part E: Logistics and Transportation Review</i> (1 review) <i>Economics of Transportation</i> (1 review) <i>Journal of Air Transport Management</i> (16 reviews) <i>IEEE Transactions On Industrial Informatics</i> (1 review) <i>Science Progress</i> (1 review)	
Professional Societies	Institute for Operations Research Management Science (INFORMS) <i>Member</i> , 2019 – present INFORMS Aviation Application Section (AAS) <i>Best student presentation award committee</i> , 2023 – present <i>Member</i> , 2019 – present International Transportation Economics Association (ITEA) <i>Member</i> , 2022 – present Operations Research Society of Israel (ORSIS) <i>Member</i> , 2022 Italian Society of Economists (SIE) <i>Member</i> , 2019 – present Italian Society of Transport Economists (SIET) <i>Member</i> , 2019 – present	
Languages and Skills	Italian (native), English (advanced) Python, Pyomo, Mathematica, R, Julia, L ^A T _E X, QGIS, Microsoft Office, Microsoft Windows	
References	<div> Nicole Adler Business School Hebrew University of Jerusalem Nicole.Adler@mail.huji.ac.il </div> <div> Gianmaria Martini Department of Economics University of Bergamo gianmaria.martini@unibg.it </div> <div> Stefano Coniglio Department of Economics University of Bergamo stefano.coniglio@unibg.it </div>	