Gianmarco Andreana

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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	March 2024 – present
Lecturer	March 2023 – present

Hebrew University of Jerusalem
Business School

Post-doctoral Researcher	January 2023 – January 2024
Lecturer	January 2023 – January 2024

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)**

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

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
<u>**Session Chair**</u>**: 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"
(<u>**AAS Best Presentation Award**</u>)

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

3rd *SoAR Symposium on Aviation Research, Bergamo, Italy*
<u>**Organization committee**</u>
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"
(<u>**Best Student Paper**</u>)

Teaching	**University of Bergamo**
	Lecturer
	Industrial Organization (M.S.E. 37210-1), Spring 2024
	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 (7 reviews)
	Transportation research part E: Logistics and Transportation Review (1 review)
	Economics of Transportation (1 review)
	Journal of Air Transport Management (14 reviews)
	Science Progress (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 Stefano Coniglio Department of Economics University of Bergamo stefano.coniglio@unibg.it	Gianmaria Martini Department of Economics University of Bergamo gianmaria.martini@unibg.it