Ceesay Muhammed

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Via del Torraccio di Torrenova 131/B
Rome, Italy
Personal Website
Born in March 1994

Education

PhD in Economics (Excellent), University of Naples Federico II 2020

Postgraduate Courses in Mathematics, University of Perugia 2018
Functional Analysis & Probability and Statistics

MSc in Economics and Finance (106/110), University of Naples Federico II 2016

BSc in Economics (Summa Cum Laude, Minor in Mathematics), University of The Gambia 2014

Teaching Experience

Teaching Assistant, Introduction to Industrial Organization, University of Rome Tor Vergata 2022 – 2024

- Undergraduate course in Industrial Organization administered to students of the Bachelor of Business Administration & Economics program.

Lecturer, University of The Gambia 2020

- Lectured graduate courses in Macroeconomics and Mathematics for Economists to students of the Masters in Economics program.

Other Teaching

Volunteer Tutor - Mathematics for Economists (MSc) 2016 - 2020

- Tutored international students of the Masters Program in Economics and Finance at the University of Naples Federico II.

Staff Trainer in Basic Statistics, Gambia Bureau of Statistics 2016

- Conducted training sessions for staff of the Gambia Bureau of Statistics on Hypothesis Testing.

Academic Positions

Postdoctoral Researcher, University of Florence 2023 – 2025

- Member of research team for the Italian University Ministry funded project **Auctions: Theory and Applications**, together with Domenico Menicucci & Nicola Doni.
- Our first paper (published in the *B.E. Journal of Theoretical Economics*) derived closed form equilibria for discrete asymmetric first price auctions, deriving new conditions for comparing first and second price auctions in terms of revenue.
- The second paper (R&R at the *International Journal of Industrial Organization*) explores bidder investment incentives in procurement in a discrete setting, overturning some results by Arozamena & Cantillon (2004).

Postdoctoral Researcher, University of Rome Tor Vergata 2022 – 2023
Postdoctoral Researcher, Free University of Bozen-Bolzano 2021 – 2022

- Member of research team together with Federico Boffa & Alberto Iozzi on the Italian University Ministry funded projects;
  - **The Economics of Autonomous Vehicles.**
  - **Fleets, Autonomous Vehicles and New Technologies in Transport: Market Design and Business Models.**
- Our work analyzed the market for fleets under different market structures, where consumers are characterized by their aversion to congestion
- We showed that when private cars cost a lot, it is better for the fleet market to be a monopoly

Research

Publications

- Ceesay, M., Boffa, F., & Iozzi, A. (2026). **Congestion and the Market Structure of Fleets.** *Case Studies on Transport Policy (Elsevier)*, 25:101889.
- Ceesay, M., Menicucci, D., & Doni, N. (2025). **Asymmetric Auctions with Discretely Distributed Valuations.** *B.E. Journal of Theoretical Economics (De-Gruyter)*, 25(1): 99-118.
- Ceesay, M. (2026). **Secret versus Public Rings in Common Value Auctions.** *International Journal of Economic Theory (Wiley)*, 22 (2026): 63–90.
- Ceesay, M. (2024). **Collusion with Not-So-Secret Rings.** *Journal of Quantitative Economics (Springer)*, 22(2): 563-570.

Working Papers

- Ceesay, M., Menicucci, D., & Doni, N. (2026). **Investments in First-Price and Second-Price Procurement Auctions.** (Revise & Resubmit - *International Journal of Industrial Organization, Elsevier*).

Languages

- English (Native), Arabic (Reading & Writing), Italian (Conversational), R, Mathematica, Maple, LaTeX.

Selected Conferences & Additional Training

Selected Conferences (Including Coauthor Presentations): SAET 2023 (Paris), Naples School of Economics PhD & Postdoc Conference (2023), XXIII SIET Scientific Meeting (Rome, 2022), Euregio Meeting on Economics of Automation (Bolzano, 2022), RGS Doctoral Conference (Germany, 2020), WIPE Workshop (Spain, 2020).
Additional Education & Certifications: Procurement & Sourcing (Rutgers University (Online), 2024); Causal Machine Learning (University of Genoa, 2021) ; Advanced Panel Data, Financial Time Series (Italian Econometric Association, 2019); Regulation of Local Public Services (Turin School of Regulation, 2021).

Honours & Awards

- Full PhD Scholarship, University of Naples Federico II (2016-2020).
- Admission (on merit) SMI Summer School in Mathematics, University of Perugia (2018).
- Outstanding Graduate Award, University of The Gambia Student Union (2016).
- Merit Scholarship (EUR 5,000), University of Naples Federico II (2015).
- Mathematics Competition Winner, University of The Gambia (2013, 2014).
- Government Scholarship, Ministry of Higher Education, The Gambia (2011-2014).
- Contributor to the Problems Section, **New York State Mathematics Teachers Journal** (2015). **Published Solution**.

Referees

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University of Naples Federico II
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Professor of Economics,
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