

Giulio Giacomo Cantone

github.com/giuliocantone

Post-Docs

University of Sussex · Business School

Brighton and Hove, UK

RESEARCH FELLOW IN INNOVATION AND RESEARCH POLICY (43K€)

March 2023 : April 2024

- Fellowship at Science Policy Research Unit funded by Schmidt Family Foundation - Schmidt Futures
- Social Indicators of Scientific-Technological Disciplinary novelty
- Project Head: Prof. Paul NIGHTINGALE (Business)

University of Perugia · CO.R.E Project

Remote

RESEARCH GRANTEE (25K€)

December 2022 : April 2023

- COrruption Risk indicators in Emergency: recipient project for the Internal Security Fund Police of European Union (EUROPOL). Development of indicators of risk of corruption in public procurement during emergencies.
- Maintainer of R Package <https://core-forge.github.io/coresoi/>. Test and development of indicators of corruption in public procurement through text mining of contracts of procurement.
- Principal Investigator: Prof. Michela GNALDI (Statistics)

Teaching, Visiting and Consulting

University of Catania · Data Analysis for Evaluation Research and Public Policy

Catania

TEACHING ASSISTANT

2020 - 2022

- 2020: 6hrs seminar on web-scraping in R.
- 2021: 16 hrs module on introduction to coding statistical analysis in R (Tidyverse). Extra hrs on exams supervision.
- 2022-2023: 28 hrs module on Causal Inference (Generalised Linear Models and Statistical Matching) and 372 hrs on individual tutoring in Statistics (Intro) and Multivariate Statistics (Multivariate Linear Models, Matching, PCA, Clustering, Multinomial GLMs). Extra hrs on exams.
- Head: Prof. Venera TOMASELLI (Statistics)
- Exemplary Materials: github.com/giuliocantone/Lezioni_DataScience_Cantone2022

Italian Association of Sociology - Methodology Section · Summer School

Catania

TEACHER OF NETWORK ANALYSIS (TIDYGRAPH)

September 2022

- 8 hrs module on: Collection, management, and visualisation of social networks in R. ais-metodologia.it/seconda-summer-school
- Head Teacher: Prof. Simona GOZZO (Sociology)
- Director: Prof. Francesco MAZZEO RINALDI (Public Policy)

University of Bologna · Summer Institute in Computational Social Science

Bologna, Italy

TEACHING ASSISTANT

June 2022

- 40hrs module on: web scraping, text mining, sentiment analysis and topic modelling. sicss.io/2022/bologna
- Head: Prof. Marco ALBERTINI (Economic Sociology)
- Head: Prof. Giampiero GIACOMELLO (Political Science)

Indiana University · Luddy Center for Artificial Intelligence

Bloomington, Indiana, US

PHD VISITOR · CENTER FOR COMPLEX NETWORKS AND SYSTEMS

September 2021 : April 2022

- Prof. Santo FORTUNATO offered to me the opportunity to participate at activities of CNetS, which deals mostly in three research direction: Fake News on Twitter, applied Agent Networks models and Science of Science / Scientometric. cnets.indiana.edu/groups/nan/people
- Principal Investigator: Prof. Filippo MENCZER (Informatics)
- Advisor: Prof. Santo FORTUNATO (Science of Science)
- Advisor: Prof. Alessandro FLAMMINI (Applied Mathematics)

University of Melbourne · RepliCATS - DARPA SCORE Phase II

Remote

MEMBER OF A PANEL OF EXPERTS (1K \$, NET)

June 2021 - October 2023

- The repliCATS project was aimed to crowdsource evaluations of the credibility of published research in social sciences.
repliacats.research.unimelb.edu.au
- I participated among many panels to review and discuss the credibility of many research papers.

University of Catania · Center of Excellence for Acceleration of Harm Reduction

Catania, Italy

POSTGRADUATE RESEARCH ACTIVITY

2018

- CoEAHR is a Reserch Center in Catania conducting in meta-analysis, data collection, and statistical analysis of novel evidence in therapeutic and preventive methods to reduce the harm of smoking behaviours.
coehar.org
- Research Director: Prof. Riccardo POLOSA (Pneumatology)
- Principal Investigator: Prof. Venera TOMASELLI (Social Statistics)

Ph.D.

University of Catania · Department of Physics and Astronomy “Ettore Majorana”

Catania, Italy

COMPLEX SYSTEMS

October 2019 - March 2023

- Advisor: Prof. Venera TOMASELLI (Social Statistics)
- Advisor: Prof. Giovanni GIUFFRIDA (Informatics)

Postgraduate Studies

Syracuse University (NY, US) · iSchool of Information Studies

Remote

SUMMER SCHOOL · SCIENCE OF SCIENCE

August 2021

- Head: Prof. Daniel ACUÑA (Information Science)

University of Catania / University “Vita e Salute S. Raffaele” (Milan)

Catania, Italy

POSTGRADUATE SCHOOL · BIostatISTICS

March 2019

- Head: Prof. Venera TOMASELLI (Social Statistics)
- Head: Prof. Stefania Mariacelia DI SERIO (Biostatistics)

University of Salerno

Tortorella (SA), Italy

SUMMER SCHOOL · METHODOLOGY OF SOCIAL RESEARCH

2017; 2018

- President: Prof. Alberto MARRADI (Sociology)
- Head: Prof. Felice ADDEO (Sociology)

Degrees

University of Catania · Department of Political and Social Sciences

Catania, Italy

MASTER DEGREE · SOCIAL RESEARCH

2016; 2018

- Advisor: Venera TOMASELLI (Social Statistics)
- Graduated with Honors

University of Catania · Department of Economics and Business

Catania, Italy

BACHELOR DEGREE · ECONOMICS

2010; 2015

Publications

PEER REVIEWED JOURNALS

(2023) **Giulio Giacomo Cantone** and Venera Tomaselli. A Multiversal Model of Vibration of Effects of the Equitable and Sustainable Well-Being (BES) on Fertility. *Social Indicator Research*.
doi: 10.1007/s11205-023-03162-1

(2023) **Giulio Giacomo Cantone** and Venera Tomaselli. Theory and Methods of the Multiverse: An Application for Panel-based Models. *QUality and QUantity*. doi: 10.1007/s11135-023-01698-5

- (2022) **Giulio Giacomo Cantone** and Venera Tomaselli. On null models for contagion effects in multidimensional networks. *Rivista Italiana di Economia Demografia e Statistica*. LXXVI, pp. 149-160.
www.sieds.it/wp-content/uploads/2023/03/12.TomaselliRIEDS2023_formatted.pdf
- (2022) Venera Tomaselli, Pietro Ferrara, **Giulio Giacomo Cantone**, et al. The effect of laboratory-verified smoking on SARS-CoV-2 infection: results from the Troina sero-epidemiological survey. *Internal and Emergency Medicine*.
 doi: 10.1007/s11739-022-02975-1
- (2021) Venera Tomaselli, Sebastiano Battiato, Alessandro Ortis, **Giulio Giacomo Cantone**, Salvatore Urso, and Riccardo Polosa. Methods, Developments, and Technological Innovations for Population Surveys. *Social Science Computer Review*.
 doi: 10.1177/0894439321994218
- (2020) Venera Tomaselli and **Giulio Giacomo Cantone**. Evaluating Rank-Coherence of Crowd Rating in Customer Satisfaction. *Social Indicators Research*.
 doi: 10.1007/s11205-020-02581-8

MAJOR WORKING PAPERS

- (Pre-print) **Giulio Giacomo Cantone**. How to measure interdisciplinary research? A systematic, yet critical, review.
osf.io/preprints/metaarxiv/hva4p
- (Pre-print) **Giulio Giacomo Cantone**. I mildly disagree that our opinions should not be averaged. A commentary on Carpentras and Quayle (2023).
<https://doi.org/10.31222/osf.io/5kzt4>
- (Pre-print) **Giulio Giacomo Cantone**, and Paul Nightingale. A Multiverse Analysis on the relationship between interdisciplinary research and scientific impact.
osf.io/preprints/metaarxiv/jy8mz
- (Pre-print) **Giulio Giacomo Cantone**, and Venera Tomaselli. A network-based matching design for text mining of hyper-polarised online reviews.
osf.io/preprints/socarxiv/v7u3h

CHAPTERS, DOCUMENTATION, AND MINOR WORKING PAPERS

- (2023) Lucas Braga de Melo, **Giulio Giacomo Cantone**, Jacopo Gabani, and Xiaoying Gao. Replication Report: A Comment on Peter T. Leeson, R. August Hardy and Paola A. Suarez (2022). In "Discussion Paper Series", Institute for Replications.
EconPapers.repec.org/RePEc:zbw:i4rdps:55
- (2023) **Giulio Giacomo Cantone**. The multiversal methodology as a remedy for the replication crisis.
osf.io/preprints/metaarxiv/kuhmz
- (2022) **Giulio Giacomo Cantone** and Venera Tomaselli. Hybrid Probabilistic-Snowball Sampling Design.
arxiv.org/abs/2204.01887
- (2022) **Giulio Giacomo Cantone**, Venera Tomaselli, and Valeria Mazzeo. Ideology-driven polarisation in online ratings: the review bombing of The Last of Us Part II.
arxiv.org/abs/2104.01140
- (2022) Venera Tomaselli, **Giulio Giacomo Cantone**, and Valeria Mazzeo. Review Bomb: On the Gamification of the Ideological Conflict. In: Bernardes, Amorim, Moreira (Eds.), "Advances in Business Strategy and Competitive Advantage", IGI Global.
- (2022) Venera Tomaselli, **Giulio Giacomo Cantone**, and Vincenzo Miracula. Specification Curve Analysis: Visualising the risk of model misspecification in COVID-19 data. In: Salvati, Perna, Marchetti, Chambers (Eds.), "Studies in Theoretical and Applied Statistics", Springer.
- (2021) Riccardo Polosa, Venera Tomaselli, Pietro Ferrara, Alba Corina Romeo, Sonja Rust, Daniela Saitta, Filippo Caraci, Corrado Romano, Murugesan Thangaraju, Pietro Zuccarello, Jed Rose, **Giulio Giacomo Cantone**, et al. Seroepidemiological Survey on the Impact of Smoking on SARS-CoV-2 Infection and COVID-19 Outcomes: Protocol for the Troina Study. *JMIR Research Protocols*.
 doi: 10.2196/32285
- (2020) Venera Tomaselli and **Giulio Giacomo Cantone**. Una teoria probabilistica per l'applicazione del Principio Precauzionale come strategia anti-epidemica. *Statistica & Società*.
 doi: 10.1007/s11205-020-02581-8

(2020) Venera Tomaselli, **Giulio Giacomo Cantone**, and Rosario D'Agata. Big Data e scale di rating: un modello CUBE per l'analisi delle valutazioni del consumatore. In: Gozzo, Pennisi, Asero, Sampugnaro (Eds.), "Big Data e processi decisionali: strumenti per l'analisi delle decisioni giuridiche, politiche, economiche e sociali", EGEE-Bocconi, pp. 191 - 204. doi: 10.1007/978-3-030-51222-4_27

PROCEEDINGS

(2024) Venera Tomaselli, Maria Daniela Giammanco, and **Giulio Giacomo Cantone**. SDGs of 2030 Agenda: A Framework for Sustainable Tourism Indicators. In Proceedings of CesTOUR Conference 2024. Greater Noida (India)

(2023) Venera Tomaselli, Maria Daniela Giammanco, **Giulio Giacomo Cantone**, Shan Zhang, and Andrea Guizzardi. Sustainable Tourism Indicators and Sustainable Development Goals of 2030 Agenda: A Mapping. In Proceedings of the AIQUAV Conference 2023 – Quality of life and the Mediterranean: between opportunity and responsibility. Bari (IT)

(2023) **Giulio Giacomo Cantone**, Venera Tomaselli, and Paul Nightingale. On the measurement of cognitive interdisciplinarity with OpenAlex's concepts. In Proceedings of the Meeting (2023) of the Italian Association of Applied Statisticians: "Technology and Data Science for Economic and Social Development". Bologna (IT)

(2023) **Giulio Giacomo Cantone**, Marco Platania, Giovanni Ruggieri, and Venera Tomaselli. EU Industrial Ecosystems: a new paradigm. In Proceedings of XXI Workshop of the Italian Society of Industrial Economics and Industrial Policies. Napoli (IT)

(2023) **Giulio Giacomo Cantone**, Simone Del Sarto, and Michela Gnaldi. A vocabulary-based approach for risk detection in textual annotations of contracts of public procurement. In Proceedings of 52th Scientific Meeting of the Italian Statistical Society. Ancona (IT)

(2022) **Giulio Giacomo Cantone** and Venera Tomaselli. Misinformation and Disinformation in Statistical Methodology for Social Sciences: causes, consequences, and remedies. In Proceedings of the Meeting (2022) of the Italian Association of Applied Statisticians: "Data-Driven Decision Making". Genova (IT), pp. 53-58.
media.fupress.com/files/pdf/24/13468/37996

(2022) Venera Tomaselli and **Giulio Giacomo Cantone**. Multiversal methods for model selection: COVID-19 vaccine coverage and relative risk reduction. In Proceedings of 51th Scientific Meeting of the Italian Statistical Society. Caserta (IT), pp. 1094 - 1099

(2021) Venera Tomaselli and **Giulio Giacomo Cantone**. Multipoint vs slider: a protocol for experiments. In Proceedings of Meeting (2021) of Italian Association of Applied Statisticians (ASA) 2021: "Statistics and Information Systems for Policy Evaluation". Firenze (IT), pp. 91-96.
media.fupress.com/files/pdf/24/6070/16988

(2020) Venera Tomaselli and **Giulio Giacomo Cantone**, A preference index design for big data. In Proceedings of the II Data Science and Social Research Conference: Methods, Technologies and Applications. Milano Bicocca (IT), pp. 343-351

Peer Reviews

Journal of Information Science: 3

IGI Global: 2

Social Science Computer Review: 1

New Media & Society: 1

Big Data & Society: 1

Major Non-Academic Professional Experience

Digital Innovation Hub SICILIA • Confindustria Catania

Catania

PART-TIME EXECUTIVE ASSISTANT

July 2018 - December 2019

- Digital Innovation Hub SICILIA is the office for digitalisation of the local chamber of the Italian employers' union (CONFINDUSTRIA).
- President: Francesco CAIZZONE (Area Director of ST Microelectronics)
- Manager of Innovation Hub: Renato BUDA (ENI)

Minor Non-Academic Professional Experience

- 2018 **3-months Internship**, Keix Marketing Research (<https://www.keix.com/>)
- 2016, 2017 **Data Literacy in Teens (Project Designer)**, Technical High School "Archimede", Catania, Italy (itarchimede.it)
- 2016 - 2018 **Secretary of the Association**, CS Italia Electronic Sport Association (<https://www.csitalia.org>)
- 2013 **Founder**, CS Italia Electronic Sport Association (<https://www.csitalia.org>)
- 2015 **3-months Internship**, Tornabene's Business Consultant Agency, Catania, Italy