Ramon Gonçalves Gonze

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EDUCATION

PhD Computer Science
Mar 2023 - now
Inria, École Polytechnique de Paris (France) and Universidade Federal de Minas Gerais (Brazil)

M.Sc. Computer Science
Nov 2020 - Jan 2023
Universidade Federal de Minas Gerais

B.Sc. Information Systems
Jan 2016 - Nov 2020
Universidade Federal de Minas Gerais
Avg. grade: 81/100

EXPERIENCE

PhD candidate
École Polytechnique de Paris and Universidade Federal de Minas Gerais (co-tutele)   *Mar 2023 - now*

- Studying a formal model for interpreting privacy as resistance to inferences under the supervision of professors Catuscia Palamidessi and Mário Sérgio Alvim.
- Working in a project in collaboration with the Universidade Federal de Minas Gerais and Inep (Instituto de Pesquisas Educacionais Anísio Teixeira), a Brazilian institution responsible for publishing the Brazilian educational census. The project's goal is to evaluate privacy risks in the census disclosure and to teach a course to the members of the institution about privacy and personal data protection.
- Working in a project in collaboration with Inria and Ined (Institut national d'études démographiques), a French research institute specialized in demographic and population studies in general. The project's goal is to evaluate possible solutions to improve privacy in demographic data published by the institute that could be used by researches and the civil community.

Master's degree
Universidade Federal de Minas Gerais
Nov 2020 - Jan 2023

- Studied applications of Quantitative Information Flow to analyze privacy and utility in data releases under the supervision of professor Mário Sérgio Alvim. Thesis defended and approved in January 11, 2023, titled "A Quantitative Information Flow Model for Attribute-Inference Attacks and Utility in Data Releases by Sampling".
- Member of the team that worked with the PRICE (Privacidade nos Censos Educacionais) project, a cooperation between the Department of Computer Science of the university and Inep. Studied methods to control data disclosure, focused specially in those based in differential privacy. Helped in creating data disclosure alternatives for Inep's educational census publication.

Undergraduate Researcher
Universidade Federal de Minas Gerais
Mar 2018 - Nov 2020

- Worked with privacy and data anonymization techniques (e.g. differential privacy) used to anonymize public datasets, with the goal of balancing the utility and privacy levels of information.
- Developed a graphical didatic tool to visualize in a geometric way the behavior of channel leakages when information changes.

Teaching Assistant

Universidade Federal de Minas Gerais *Mar 2017 - Dec 2019*

· Helped students to master fundamental concepts of programming. Prepared material for and taught classes in select topics such as digital circuits, basic structures of programming languages and simple algorithms.

PUBLICATIONS

· *Riscos de Privacidade em Dados de Saúde: Investigando Inferência de Atributo no DATASUS.* Ramon G. Gonze, Igor W. Lemes, Jussara M. Almeida, Marcos A. Gonçalves, Mário S. Alvim. Simpósio Brasileiro de Cibersegurança (SBSeg), 2025.

· *Analyzing the Shuffle Model Through the Lens of Quantitative Information Flow.* Jurado, M., Gonze, R. G., Alvim, M. S., & Palamidessi, C. 2023 IEEE 36th Computer Security Foundations Symposium (CSF).

OTHER ACTIVITIES

· Program Commitee of the 15th Atelier sur la Protection de la Vie Privée (APVP 2025) that took place in Jun/2025 in Chasseneuil-du-Poitou, France.

· Attended the *Winter School in Cybersecurity* organized by the PEPR Cybersecurité (Programme et équipements prioritaires de recherche) in Feb/2024 in Autrans, France.

· Attended the *Workshop on Time Series Analysis and Statistical Disclosure Control Methods for Official Statistics* organized by the OECD in Dec/2023 in Boulogne, France.

· Co-organizer and chair of a session in the *2nd Comète's Workshop on Ethical Artificial Intelligence in Nov/2023 in Paris, France.*

· Attended the *Atelier sur la Protection de la Vie Privée (APVP)* 23 in Jun/2023 in Arc-et-Senans, France.

· Attended the *Annual Privacy Forum 2023 (APF)* in Jun/2023 in Lyon, France.

· Presented the paper *Analyzing the Shuffle Model through the Lens of Quantitative Information Flow. Jurado, M., Gonze, R. G., Alvim, M. S., & Palamidessi, C. 2023 IEEE 36th Computer Security Foundations Symposium (CSF)* at the Interdisciplinary Project on Privacy (IPoP) meeting in Jun/2023 in Lyon, France.

LANGUAGE PROFICIENCY

Portuguese - Native proficiency
English - Professional working proficiency
French - Basic