César Sabater - Currículum Vítae

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Nationality	Argentina		

Recent Positions

March 2023 - present
Post Doctoral Researcher
Institution: CNRS, INSA Lyon
Topic: Privacy and Security of Data-Processing Systems
Supervisor: Sonia Ben Mokhtar
Research Team: DRIM

July 2022 - March 2023
Post Doctoral Researcher
Institution: INRIA Lille - Nord Europe
Topic: Privacy preserving machine learning
Supervisor: Jan Ramon
Research Team: MAGNET

Education

January 2019 - June 2022
Ph.D. in Computer Science
Institution: INRIA Lille - Nord Europe
Defense date: June 20, 2022
Topic: Privacy preserving machine learning
Supervisor: Jan Ramon
Research Team: MAGNET

March 2008 - April 2017
"Licenciado" Degree in Computer Science (Equivalent to a Master degree in France)
Qualification: Licenciado en Ciencias de la Computación
University: Universidad Nacional de Rosario (National University of Rosario)
***Academic Average*: 9.47 over 10 (top 5% of the class)**
Graduation Thesis: Semi-Automatic Generation of Adaptive Codes
Thesis work was produced at INRIA - CAMUS research team.
Thesis Advisor: Cédric Bastoul, University of Strasbourg
Thesis Co-Advisor: Guillermo Luis Grinblat, University of Rosario.

2002-2007
Secondary School - Instituto Politécnico Superior "General San Martín"

Rosario, Santa Fe, Argentina

Publications

1. César Sabater, Florian Hahn, Andreas Peter, and Jan Ramon. Private sampling with identifiable cheaters. *Proceedings on Privacy Enhancing Technologies*, 2023(2), 2022

2. César Sabater, Aurélien Bellet, and Jan Ramon. An accurate, scalable and verifiable protocol for federated differentially private averaging. *Machine Learning*, pages 1–45, 2022

3. César Sabater and Jan Ramon. Zero knowledge arguments for verifiable sampling. In *NeurIPS 2021 Workshop Privacy in Machine Learning*, 2021

4. César Sabater, Aurélien Bellet, and Jan Ramon. Distributed Differentially Private Averaging with Improved Utility and Robustness to Malicious Parties. NeurIPS 2020 workshop on Privacy Preserving Machine Learning - PriML and PPML Joint Edition, December 2020. Poster

5. César Sabater, Aurélien Bellet, and Jan Ramon. Échange de bruit corrélé pour le calcul distribué de moyenne avec garanties de confidentialité différentielle. In *Conférence sur l'Apprentissage Automatique 2020*, 2020

6. Maxime Schmitt, César Sabater, and Cédric Bastoul. Semi-automatic generation of adaptive code. In *IMPACT, Seventh International Workshop on Polyhedral Compilation Techniques*, 2017

7. Cédric Bastoul and César Sabater. Automatic generation of adaptive simulation codes. In *SimRace, Conference on Numerical Methods and High Performance Computing for Industrial Fluid Flows*, 2015

8. Ana Casali, Claudia Deco, Cristina Bender, Santiago Fontanarrosa, and César Sabater. Asistente para el depósito de objetos en repositorios con extracción automática de metadatos. In *XV Simposio Internacional de Tecnologías de la Información y las Comunicaciones en la Educación SINTICE*, pages 133−136, 2013

Participation to Schools, Courses, Workshops and Conferences

March 9-10 2023 · **2nd RedChain-Lab Workshop**
La Clusaz, France
https://sites.google.com/view/red-chain-lab-laclusaz/
Participation: Speaker

Jan 13 2023 · **Workshop de la chaire Data et Services pour une Ville Durable (DSVD)**
Lyon, France
https://sites.google.com/view/workshop-dsvd-2023/accueil
Participation: Speaker

June 23-24 2022 · **ANR Privacy-Preserving Methods for Medical Research (PMR) Workshop 2022**
Lille, France
https://project.inria.fr/anrpmr/project-meeting-23-24-06-2022/
Participation: (On-site) Presentation

Dec 14 2021 · **NeurIPS 2021 workshop on Privacy in Machine Learning (PriML)**
Virtual workshop
https://priml2021.github.io/
Participation: Presentations via poster and video recording

Oct 28 2021 · **PPML Health Workshop 2021**
Lyon, France
https://health-ppml.conf.citi-lab.fr/

Oct 27-28 2021 · **ANR Privacy-Preserving Methods for Medical Research (PMR) Workshop 2021**
Lyon, France
https://project.inria.fr/anrpmr/project-meeting-27-10-2021/
Participation: (On-site) Presentation

Dec 6-12 2020 · **Conference on Neural Information Processing Systems**
Virtual conference
https://nips.cc/Conferences/2020

December 11 2020 · **NeurIPS 2020 workshop on Privacy Preserving Machine Learning - PriML and PPML Joint Edition**
Virtual workshop
https://ppml-workshop.github.io/ppml20/
Participation: Presentations via poster and video recording

Sept 11-16 2019 · **ECML/PKDD Summer School (EPSS19)**
Track: Machine Learning and Data Mining for Geo-Spatial Data/Volunteered Geographic Information.
Würzburg, Germany
https://ecmlpkdd2019.org/summerschool/

July 9-11 2019	**APVP 2019 — l'Atelier sur la Protection de la Vie Privée**
	Cap Hornu, France
	`https://project.inria.fr/apvp2019/`
	Participation: Poster presentation

June 11-15 2018	**Summer School on real-world crypto and privacy**
	Šibenik, Croatia
	`https://summerschool-croatia.cs.ru.nl/2018/`

Jan-March 2012	**Summer Scolarship at IMPA (National Institute of Pure and Applied Mathematics)**
	Rio de Janeiro, Brazil
	Course: Extremal And Probabilistic Combinatorics, Master Level
	Grade: A-
	Professor: Robert Morris (`https://en.wikipedia.org/wiki/Robert_Morris_(mathematician)`)

Feb 2010	**17ma Escuela de verano en Ciencias Informáticas. (17th Summer School of Computer Science)**
	Río Cuarto, Argentina

Other Research and Industry Positions

Jan - Dec 2018	**Research Engineer Position in Computer Science**
	Institution: INRIA Lille - Nord Europe
	Topic: "Privacy-friendly distributed Machine Learning"
	Supervisors: Jan Ramon
	Research Team: MAGNET

2014	**Research Internship at INRIA and University of Strasbourg (as part of my degree thesis)**
	Project: "Mixing Compiler Optimization and Numerical Analysis for Performance and Productivity"
	Research Teams Involved: CAMUS (Compilation for Multicore Architectures) at
	Inria (French National Institute for Research in Computer Science and Automation)
	and ICPS (Parallel and Scientific Computing)
	University: University of Strasbourg, Alsace, France
	Internship Supervisor: Cédric Bastoul, University of Strasbourg.
	Supported by the Inria Internships Program

2012 - 2013	**Research Internship at CIFASIS-CONICET**
	Project: "Automatic and Metadata Extraction and Easy Submission Workflow of Publications for
	Open Access academic Repositories"
	Institution: CIFASIS-CONICET
	(International French-Argentine Center of Information Sciences and Systems)
	Supervisor: Ana Casali, Head of the Computer Science Department, Universidad Nacional de Rosario.
	Supported by Argentine Agency ANPCYT
	(National Agency of Scientific and Technological Development)

2011	**ITX Corp.**
	Member and co-founder of an independent Argentinian team of
	freelance developers that worked in assignments of ITX Corp., NY, USA
	Main Tasks: Development of front-end Mobile Websites

2010 - 2011	**National University of Rosario, Government Headquarters**
	Developer in Education Technologies and Administration Secretariat
	Main Tasks: Develop of back-end and front-end extensions of online courses platforms.

Awards and Participation in National and International Competitions

2009	**ACM — International Collegiate Programming Contest, Regionals**
	International Contest: Region of Latin América

2009	Santa Fe State Contest on Competitive Programming
	Regional Contest: region of Santa Fe, Argentina
	Award: 3rd Position, Bronze Medal

2009   **Santa Fe State Contest on Competitive Programming**
Regional Contest: region of Santa Fe, Argentina
Award: 3rd Position, Bronze Medal

2006   **Olimpiada Informática Argentina (Argentinian Olympiad in Informatics)**
National Selection Contest for IOI (International Olympiad in Informatics)
Position: 5th position
1st substitute of the Argentinian team for the IOI (International Olympiad in Informatics)
that took place in Yucatan, México.

2006   **Olimpiada Informática Argentina (Argentinian Olympiad in Informatics)**
National Contest
Award: 3rd position, Bronze Medal

2004   **Olimpiada Informática Argentina (Argentinian Olympiad in Informatics)**
National Contest
Position: 5th position

References

- Prof. Jan Ramon, Permanent Researcher in MAGNET team at *INRIA-Lille V*illeneuve d'Ascq, France
  phone.: +33 (0)3 59 35 87 12
  email: jan.ramon@inria.fr
  website: `http://researchers.lille.inria.fr/jramon/`

- Prof. Aurélien Bellet, Permanent Researcher in MAGNET team at *INRIA-Lille V*illeneuve d'Ascq, France
  phone: +33 (0) 3 59 35 87 13
  email: aurelien.bellet@inria.fr
  website: `http://researchers.lille.inria.fr/abellet/`

- Prof. Marc Tommasi, Head of the MAGNET team at *INRIA-Lille V*illeneuve d'Ascq, France
  phone: +33 (0)3 59 35 87 23
  email: marc.tommasi@inria.fr
  website: `http://researchers.lille.inria.fr/tommasi/`

Engineering and Programming Skills

Advanced Knowledge in C, C++, STL, Analysis and Algorithm Design, and Data Structures. Advanced Knowledge in Java, PHP and Python. Advanced Knowledge Functional Programming in Haskell and OCaml.

Languages

Spanish	Native Speaker.
English	Advanced writing and reading levels. Fluency to speak and listen.
French	Basic writing, reading, oral comprehension and speaking levels.