

Hadrien Notarantonio

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CAREER

Post doctorant researcher at CNRS (IRIF, Paris & LaBRI, Bordeaux) 2024 – 2026
Advisors : Marie Albenque (CNRS, IRIF) & Mireille Bousquet-Mélou (CNRS, LaBRI)

DIPLOMA (PARIS SACLAY UNIVERSITY)

PhD thesis : Geometry-driven algorithms for the efficient solving of functional equations. 2024
Advisors : Alin Bostan (Inria Saclay), Frédéric Chyzak (Inria Saclay), Mohab Safey El Din (Sorbonne University).
Master : Fundamental Mathematics and Applications, Applied Algebra. 2021
Agrégation : French Competition for High Teaching Diploma in Mathematics 2020
Bachelor : Fundamental Mathematics and Applications. 2018

PRIVATE SECTOR EXPERIENCES

Logistic assistant at Castorama Rungis (France)
Topic : *Products installation.* June 2017–August 2017
Summer internship at Crédit Agricole Paris (France)
Topic : *Design of Excel macros in VBA for the automatic sending of emails to brokers.* June 2016–July 2016

PREPRINT

DDE-Solver: A Maple package for Discrete Differential Equations

Submitted in February 2024.

Systems of Discrete Differential Equations, Constructive Algebraicity of the Solutions

with S. Yurkevich, submitted in October 2023.

PUBLICATIONS

Fast Algorithms for Discrete Differential Equations

with A. Bostan and M. Safey El Din, published in ACM, proceedings of ISSAC'23.

Effective algebraicity for solutions of systems of functional equations with one catalytic variable

with S. Yurkevich, published in SLC, proceedings of FPSAC'23 (Talk).

Algorithms for Discrete Differential Equations of Order 1

with A. Bostan, F. Chyzak, and M. Safey El Din, published in ACM, proceedings of ISSAC'22.

SCIENTIFIC PROJECTS

Research project during the master degree (supervision by Michaël Quisquater) Topic : Study and implementation of the Hellman-Reyneri algorithm.	Versailles (France) 2020–2021
Research project during the master degree (supervision by Guy Henniart) Topic : Study of the subgroups of $SU_2(\mathbb{C})$.	Orsay (France) 2019–2020
Research project during the master degree (supervision by Etienne Fouvry) Topic : Refinement of the prime number theorem.	Orsay (France) 2018–2019

TALKS (SELECTION)

Les rencontres MathTech	(Bures sur Yvette, France), 2024
GT : Combinatoire et Interactions	(Bordeaux, France), 2024
Recent Trends in Computer Algebra : topical day	(Paris, France), 2023
CAP 2023	(Bures sur Yvette, France), 2023
ISSAC 2023	(Tromsø, Norway), 2023
FPSAC 2023	UCD (Davis, USA), 2023
Working group : Transcendence and Combinatorics	IHP (Paris, France), 2022
ISSAC 2022	LILLIAD (Lille, France), 2022

ORGANIZATION

MATHEXP-PolSys seminar Topic : Organization of a joint seminar between two french research teams.	2022-2024
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LANGUES

French (native), **English** (fluent), **Spanish** (bachillerato in 2015), **Italian** (elementary understanding)

HOBBIES

Hiking : GR20 (8 days, France), tour du Beaufortain (6 days, France).

Diving : Level 2 CMAS, nitrox diver, RIFAP.