

Guillaume GEOFFROY

Ph.D. student in mathematics

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Personal data

Guillaume Jean-Jacques Geoffroy, born 5 5 April 1992 in Le Chesnay (Yvelines, France), french nationality.

Current position

Since 09/2018 **Visiting assistant professor (ATER)** at I2M (Institut de Mathématiques de Marseille).

Education

- Since 09/2015 **Ph.D in mathematics** (ongoing), Aix-Marseille University.
Étude de la réalisabilité classique et de ses applications (Classical realizability and its applications). Advisor: Laurent Regnier.
Defense : March 2019.
- 2011 — 2015 **École Normale Supérieure diploma**, École Normale Supérieure, Paris.
Major: mathematics, minor: computer science.
- 2014 Research internship, Universidad de la República, Montevideo (Uruguay).
Classical realizability in set theory : an example with the model of threads. Advisor: Alexandre Miquel.
- 2013 — 2014 **Research Master (M2) : Mathematical Logic and Foundations of Computer Science (LMFI)**, Paris Diderot University, École Normale Supérieure, Paris. With honours (Mention très bien).
- 2011 — 2013 University degree (L3 and M1) in mathematics, École Normale Supérieure, Paris.
- 2009 — 2011 CPGE (2-year program preparing for entry exams to engineering schools), Lycée Louis le Grand, Paris. Admitted to École Normale Supérieure, group MPI, rank 23rd.
- 2009 Baccalauréat général (high-school diploma), scientific option, Lycée Évariste de Parry, Saint Paul (La Réunion, France). With honours (mention très bien, avec les félicitations du jury).

Research

Peer-reviewed publications

- 07/2018 Guillaume Geoffroy. Classical realizability as a classifier for nondeterminism. *LICS 2018 : Thirty-First Annual ACM / IEEE Symposium on Logic in Computer Science*.

Talks

- 09/2018 Connecting degrees of parallelism and Boolean algebras through classical realizability, *CHoCoLa*.
- 07/2018 Classical realizability as a classifier for nondeterminism, *LICS 2018*.

Science popularization

Co-founder and vice-president of Pi Day association (www.piday.fr).

2015 — 2017 President of Pi Day association.

14/03/2017 Co-author (with Joël Cohen) of the mathematical musical *From Marseille to Vegas* and co-organizer of the Pi Tour : three performances of the musical in Paris (théâtre des Variétés), Lyon (le Transbordeur) and Marseille (le Silo), accompanied by short scientific talks (attendance : 2000). Videos : <http://www.piday.fr/extraits-video-2017/> (in French)

14/03/2016 Co-author of the mathematical musical *Les π travaux d'Archimède* and co-organizer of Pi Day in Marseille : one performance of the musical, accompanied by short scientific talks (attendance : 700). The association received the 2016 d'Alembert Award of the French Mathematical Society for this action.

Teaching

Since 09/2018 **Visiting assistant professor (ATER)** at Aix-Marseille University (192h per year). Linear algebra ; methodology ; mathematical reasoning (1st year university — L1) ; C and systems programming (1st year university — L1) ; research initiation workshops (high school).

2015 — 2018 **Teaching assistant** (chargé de mission d'enseignement) at Aix-Marseille University (64h per year). Introductory analysis ; algebra and geometry (1st year university — L1) ; C programming (1st and 2nd year university — L1 & L2) ; logic and computability (graduate course — M2) ; research initiation workshops (high school).

Languages

French (native), English, Spanish, Italian.