

Thomas Sibut-Pinote

Curriculum Vitae

Education

- 2014–current **PhD Candidate**, *Inria Saclay/École Polytechnique*, Palaiseau.
supervised by Assia Mahboubi. Includes teaching assistant position.
- 2011–2014 **Master's degree in Theoretical Computer Science**.
École Normale Supérieure de Lyon, Civil Servant student.
- 2012–2013 **Agrégation de Mathématiques option D (Informatique)**, *ENS Lyon*.
- 2008–2010 **MPSI - MP***, *Lycée du Parc*, Lyon.

Awards & Grants

- 2014 **Google Hash Code: 3rd place out of 53 teams** *In a team of 4*
- 2014 PhD Grant from ENS de Lyon

Research Internships

- Summer 2016 Microsoft Research, Cambridge, UK, supervised by Georges Gonthier
- 2014 Inria Saclay (France), supervised by Assia Mahboubi
- 2012 UWO (Canada), supervised by Eric Schost
- 2012 Inria Saclay (France), supervised by Frédéric Chyzak and Assia Mahboubi

Research-related visits

- Nov. 2016 **Eric Schost, Waterloo** *Writing a paper on our work on matrix products*
- Dec. 2015 **Pierre-Yves Strub, Madrid** *Beginning of porting a Bitcoin paper in Easycrypt*
- Nov. 2015 **Mioara Joldes & Erik Martin-Dorel, Toulouse** *Merged my work with CoqApprox*
- Feb. 2015 **MARELLE Inria team, Sophia-Antipolis** *Worked on my Coq code about integrals*

Publications and preprints

- 2016 Short Paper: Formal Verification of Smart Contracts, PLAS 2016
- 2016 Formally Verified Approximations of Definite Integrals, ITP 2016
- 2014 A Computer-Algebra-Based Formal Proof of the Irrationality of $\zeta(3)$, ITP 2014

Software Contributions

- CoqInterval **Implemented the integral tactic** *with A. Mahboubi & G. Melquiond, [submitted](#)*
- Apéry **Proof of Apéry's theorem** *with F.Chyzak & A. Mahboubi*
- Matrix Prod. **Ocaml library developped after my internship** *with E.Schost, [git repo](#)*

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📄 specfun.inria.fr/tsibutpi/research • 🌐 [tomsib2001](https://github.com/tomsib2001)

Talks at Conferences and Seminars

- Aug. 2016 ITP 2016: Formally Verified Approximations of Definite Integrals
- May 2016 Fastrelax ANR meeting: Formally Verified Approximations of Definite Integrals
- Oct. 2014 [SpecFun Seminar: "Fast Matrix Product Algorithms: From Theory to Practice"](#)
- Nov. 2015 JNCF: Fast Matrix Product Algorithms: From Theory to Practice
- Feb. 2015 [Turing Building PhD Seminar: "Bitcoin, a decentralized and trustless protocol"](#)

Responsibilities

- 2015 - 2016 Co-organisation of the PhD Seminar of Turing building at Inria Saclay

Reviews

- 2016 Interactive Theorem Proving, conference proceedings
- 2015 Conference on Automated Deduction, conference proceedings

Attendance of Conferences and Summer Schools

- 2016 Journées Nationales du Calcul Formel (Marseille, France)
- 2016 **Journée Blockchain Inria (Paris, France)** *Short Outline of Interests*
- 2016 **Interactive Theorem Proving (Nancy, France)** *Talk (see above)*
- 2016 **Microsoft Research PhD week (Cambridge, UK)** *Poster*
- 2016 IACR Summer School on Blockchain Technologies (Corfu, Greece)
- 2015 **Journées Nationales du Calcul Formel (Cluny, France)** *Talk (see above)*
- 2015 **Coq Coding Sprint (Sophia-Antipolis, France)** *PR for a Print function*
- 2015 COQEPIT Coq Summer school (Fréjus, France)
- 2015 École des Jeunes Chercheurs du CNRS (Orléans, France)
- 2014 Journées Nationales du Calcul Formel (Marseille, France)

Teaching (practical sessions)

- 2016 [INF411](#), Basics of programming (Java), École Polytechnique
- 2016 [INF441](#), Advanced Programming (Ocaml/Java), École Polytechnique
- 2015 [INF311](#), Bases in Programming and Algorithmics, École Polytechnique
- 2015 [INF442](#), Big Data, École Polytechnique
- 2013-2014 [Ocaml programming sessions](#), Lycée du Parc, MP/MP*
- * - 2013 Various kinds of tutoring in French Middle School and High School

Programming Languages

- Strong Ocaml (8 years experience, taught), Coq
- Good Python, C++, Lean
- Basic Java, Haskell

— Languages

French **Native**
English **Bilingual**
Russian **To reactivate**