Pierre Simon

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Born: September 12, 1985
Nationality: French

Education

2008–2011 **PhD in Mathematics**, *Université Paris-Sud*, Paris.
advisor: Élisabeth Bouscaren
title: Ordre et stabilité dans les théories NIP
theme: Model theory (a branch of mathematical logic)

2007–2008 **Masters in Mathematics**, *Université Paris 7*, Paris.
Specialized in Mathematical logic, model theory

2007 **Agrégation de mathématiques**.
(French national mathematics teaching competitive examination; rank: 7)

2008 **Diploma of the École Normale Supérieure**.
Specialized in Mathematics

2005–2009 **Student at École Normale Supérieure**, Paris.

Employment

2014–Present **Chargé de recherche, CNRS**, *Université Claude Bernard*, Lyon.
(Tenure research position)

Jan-May 2014 **Post-doctoral position**, *MSRI*, Berkeley.

2012–2013 **Post-doctoral position**, *Hebrew University*, Jerusalem.

2010–2012 **Agrégé-préparateur**, *École Normale Supérieure*, Paris.
(Teaching assistant)

Awards

2014 Strauch Postdoctoral Scholar, Spring semester, MSRI, Berkeley

2013 Mark Fulk Student Award (with Roi Livni)
(Conference on Learning Theory (COLT), best paper award)

2012 Sacks prize
(Awarded each year to one thesis in mathematical logic, worldwide)

2012 Perrissin-Pirasset/Schneider prize from the Chancellerie des Universités de Paris
(10,000 € awarded each year to one thesis in mathematics defended in the Paris area)

2003 Contestant at the International Mathematical Olympiads: silver medal

Programming skills

Experience of programming as a hobby (small games). Good general knowledge.

Languages

Mothertongue	**French**
Fluent	**English**
Intermediate	**Spanish, German, Hebrew**
Basic	**Chinese (Mandarin)**

Interests

- Reading topics: languages, linguistics, cognitive science, history
- Running, swimming, cycling, meditation
- Travels
- Piano

Teaching

2010–2012	Teaching assistant: logic course, 3rd year students, ENS, Paris
2009–2010	Teaching assistant: calculus, 2nd year students, Université Paris-Sud Voluntary tutoring of 1st and 2nd year students, Université Paris-Sud
2008–2009	Calculus course, CMI, Chennai, India

Publications

Book

A Guide to NIP theories
Lecture notes in Logic, Cambridge University Press (to be published)

Published papers

- **External definability and groups in NIP theories**
  with A. Chernikov and A. Pillay
  J. London Math. Soc., accepted
- **On forking and definability of types in some dp-minimal theories**
  with S. Starchenko
  J. Symbolic Logic, accepted
- **Dp-minimality: invariant types and dp-rank**
  J. Symbolic Logic, accepted

- **Honest compressions and their application to compression schemes**
  with R. Livni
  Proceedings of the 26th Conference on Learning Theory (COLT), 2013
- **The Borel cardinality of Lascar strong types**
  with I. Kaplan et B. Miller
  J. London Math. Soc., accepted
- **Externally definable sets and dependent pairs II**
  with A. Chernikov
  Trans. of the AMS, accepted
- **Groups and fields with NTP2**
  with A. Chernikov and I. Kaplan
  Proceeding of the AMS, accepted
- **Witnessing dp-rank**
  with I. Kaplan
  Notre Dame J. of Formal Logic, accepted
- **Distal and non-distal NIP theories**
  Annals of Pure and Applied Logic, Vol 164-3 (2013) 294–318
- **A note on generically stable measures and fsg groups**
  with E. Hrushovski and A. Pillay
  Notre Dame J. of Formal Logic, accepted
- **Adding linear orders**
  with S. Shelah
  J. Symbolic Logic, Vol 77 (2012) 717–725
- **Finding generically stable measures**
  J. Symbolic Logic, Vol 77, Issue 1 (2012)
- **Externally definable sets and dependent pairs**
  with A. Chernikov
  Israel J. of Math., accepted
- **Generically stable and smooth measures in NIP theories**
  with E. Hrushovski and A. Pillay
  Trans. of the AMS, 365 (2013), 2341–2366
- **On dp-minimal ordered structures**
  J. Symbolic Logic, Vol 76, Issue 2 (2011)

Preprints

- **Rosenthal compacta and NIP formulas**
- **Invariant types in NIP theories**
- **The affine and projective groups are maximal**
  with I. Kaplan