Pierre Vial

Post-Doctoral Researcher

Education

2014 – 2017 **PhD**, *IRIF*, Paris Diderot Advisor: Delia Kesner. Co-advisor: Damiano Mazza.

2014 **Master LMFI (Mathematical logic and computer science)**, *Paris Diderot*, Paris
Magna cum laude

2007 **Master Stochastic Processes**, *Paris 6*, Paris

2001 – 2007 **Élève fonctionnaire stagiaire**, *ENS Ulm* , Paris
Provisional civil-servant and student at ENS

2001 **Entrance exam**, *École normale supérieure (rue d'Ulm)*, Paris
Concours MPI

1999 – 2001 **Classes préparatoires MPSI-MP***, *Lycée Henri Poincaré*, Nancy
Intensive preparation for the entrance exams of french Grandes Écoles

1999 **Baccalauréat scientifique**, *Lycée E. Bichat*, Lunéville
High school graduation

Experience

2020/04 – **Post-doc in Deducteam (Inria)**, *ENS Paris-Saclay*, Gif-sur-Yvette
Under the supervision of Chantal Keller and Valentin Blot

2019 **External Teacher**, *Université de Nantes*, Nantes
56 h

2018 & 2019 **External Teacher**, *IMT Atlantique*, Nantes
2 × 16 h

2018 – 2019 **Post-doc in the Gallinette Team**, *LS2N (Inria and CNRS)*, Nantes
Under the supervision of Nicolas Tabareau, ERC project CoqHott

2017 **Teaching and research assistant ("A.T.E.R.")**, *Paris Diderot - Paris 7*, Paris
Temporary teaching and research assistant.

2014 – 2017 **Phd student - teaching assistant ("chargé de TP")**, *Paris Diderot - Paris 7*, Paris
Giving some "hands-on" to undergraduate students. 64 hrs per year

2007 – 2014 **Professeur agrégé de mathématiques**, *Éducation nationale*
Mathematic teacher in the french public education system, mostly in high school and in Académie de Versailles

2009 – 2012 **Colleur de mathématiques en ECS**
Preparation to oral examination in mathematics for Management Schools.

Languages

French Native

English Fluent

German Basic communication skills, basic reading

Yiddish Medium communication skills

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Invited Talks

HOR 2018 Higher-Order Rewriting *Workshop of FSCD18 (Oxford)*

Selected Talks

Nov. 2014 Journées Geocal-LAC (Chambéry)
Oct. 2015 Journées Geocal-LAC (Nancy)
Jun. 2016 HOR (Porto) *(peer-reviewed)*
Nov. 2016 LIA INFINIS (Paris Diderot)
Nov. 2016 Journées Geocal-LAC (Paris Diderot)
Dec. 2016 Rencontres Chocola (ENS Lyon)
Apr. 2017 DICE-FOPARA (Uppsala) *(peer-reviewed)*
Apr. 2017 Types (Budapest) *(peer-reviewed)*
Nov. 2017 Journées Geocal-LAC (Nantes)
Jun. 2018 Types (Braga) *(peer-reviewed)*
Jun. 2019 Types (Oslo) *(peer-reviewed)*
July 2020 Lics (online)
Nov. 2021 Journées LMF

Program committees

2021 Member of POPL Artifact Evaluation Committee

Publications

International Conferences and Journals

[1] Pierre Vial. Infinitary Intersection Types as Sequences: a New Answer to Klop's Problem. In *LICS 2017, Reykjavik, Iceland, June 20-23*, 2017.

[2] Delia Kesner and Pierre Vial. Types as Resources for Classical Natural Deduction. In *FSCD 2017, Oxford, England, September 3-9*, 2017.

[3] Damiano Mazza, Luc Pellissier, and Pierre Vial. Polyadic Approximations, Fibrations and Intersection types. In *POPL 2018, Los Angeles, USA, January 8-13*, pages 1–26, 2018.

[4] Pierre Vial. Every λ-term is meaningful in the infinitary relational model. In *LICS, Oxford, July 9-12*, 2018.

[5] Pierre Vial. Sequence types for hereditary permutators. In *FSCD, Dortmund, June 25-28*, 2019.

[6] Delia Kesner and Pierre Vial. Non-idempotent types for classical calculi in natural deduction style. *Log. Methods Comput. Sci.*, 16(1), 2020.

[7] Delia Kesner and Pierre Vial. Consuming and persistent types for classical logic. In *LICS '20, Saarbrücken, Germany, July 8-11, 2020*, pages 619–632. ACM, 2020.

Workshops

[8] Valentin Blot, Louise Dubois de Prisque, Chantal Keller, and Pierre Vial. General automation in coq through modular transformations. In *PxTP 2021, Pittsburg*, volume 336 of *EPTCS*, 2021.

Submitted

[9] Pierre Vial. Sequence types and infinitary semantics. *Submitted to LMCS.*

Prepublications

[10] Valentin Blot, Denis Cousineau, Enzo Crance, Louise Dubois de Prisque, Chantal Keller, Assia Mahboubi, and Pierre Vial. Modular pre-processing for automated reasoning in dependent type theory.

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