

# Christine Tasson

Date of birth 1981  
Citizenship French  
Children 2 (born in 2011 and 2014)  
Position Assistant professor

---

## Professional experience and Education

- Since 2010 **Assistant professor (Maître de conférences)**, Computer Science department and IRIF Laboratory, Paris Diderot University.  
Paris, France
- 2009–2010 **Post-doc position**, in the MEASI team of É. Goubault, CEA.  
Gif-sur-Yvette, France
- 2009 **"Assistant Temporaire d'Éducation et de Recherche"**, *Teaching and Research assistant*, Mathematics department and IRIF Laboratory, Paris Diderot University.  
Paris, France
- 2006–2009 **PhD in Computer Science**, (*Defense : Dec. 2009*), PPS Laboratory, Paris-Diderot University.  
Paris, France
- 2002–2006 **Master in Mathematics and Computer Science**, École Normale Supérieure de Cachan.  
Cachan, France
- 2005 **"Agrégation" in Mathematics**, *French National Teaching diploma*.

---

## 5 main publications

- JACM18 **Full abstraction for probabilistic PCF**, with T. Ehrhard and M. Pagani.  
accepted for publication in the Journal of the ACM, March 2018.
- POPL18 **Measurable cones and stable, measurable functions : a model for probabilistic higher-order programming**, with T. Ehrhard and M. Pagani.
- DC18 **Geometric and Combinatorial Views on Asynchronous Computability**, with É. Goubault and S. Mimram, published in March 2018 in Distributed Computing.
- MSCS16 **On the transport of finiteness structures**, with L. Vaux, published in 2016 in Mathematical Structure of Computer Science.
- STOC14 **Distributed computability in Byzantine asynchronous systems**, with H. Mendes and M. Herlihy.

---

## Awards

- CADE05 **Nominal Techniques in Isabelle/HOL**, CADE15 Thoralf Skolem Award, with C. Urban.

---

## Invited Talks

- Sept. 2018 **A linear logic approach to the semantics of probabilistic programs**, *CSL18*, Birmingham.

- Sept. 2017 **Quantitative Semantics for Probabilistic Programming**, *FSCD17*, Oxford.
- Dec. 2016 **Probabilistic Full Abstraction**, *Compositionality workshop*, Simons Institute, Berkeley.
- Jul. 2014 **Geometrical Interpretations of Asynchronous Computability**, *Topological Workshop POPL14*, Paris.
- Dec. 2013 **A Quantitative Path between Syntax and Semantics**, *WIP13*, Workshop in Information and Processes, San Jose, Costa Rica.
- Mai 2013 **Probabilistic coherent spaces are fully abstract**, *ASL13*, Special session on differential categories, Waterloo, Canada.

## Professional Activities

### Local Responsibilities

- Since 2017 **Algebra and computation team leader**, *Pole PPS*, IRIF.
- Since 2017 **PhDs counselor**, *Pole PPS*, IRIF.
- Since 2016 **Member of the Department Council**, Computer Science Department.
- Since 2016 **Member of the Scientific Council**, Computer Science Department.
- 2013,15,16 **Member of Hiring Council**, Assistant Professor recruitment, Computer Science Department.
- Since 2018 **co-Head of the master Logique Mathématique et Fondements de l'Informatique (LMFI)**, Maths Department.
- 2012–2018 **co-Head of the undergraduate Maths and C.S. bicursus**, Computer Science Department.
- 2011–2014 **PhDs counselor**, Laboratory PPS.

### International and National Responsibilities

- Program committees **Member**, *LAFI'18, TLLA'18, FOSSACS'18, LICS'17, MFPS'16, JFLA'12-13 and Chocola 17-18*.
- Chair**, *National conference, "Journées Francophones des Langues Applicatifs"*, JFLA'14.
- Reviewer **Journals**, *International*, MSCS, LMCS, *Journal of Applied and Computational Topology*.
- Conferences**, *International*, FOSSACS, LICS, FSCD, MFPS, ICTAC, SD.
- Organization committees **Member**, *International Workshops*, WIP'16, DomainsXI, BLL'14, LI'12.

## Supervision of research

### PhDs

- Since 2017 **Zeinab Galal**, supervised with T. Ehrhard and L. Vaux, Solving lambda-terms differential equations - a combinatorial approach.
- Since 2016 **Jules Chouquet**, supervised with L. Vaux, Taylor expansion and Normalization in Linear Logic.
- Since 2016 **Rémi Nollet**, supervised with A. Saurin, Reactive Functional Programming and Temporal Logic.

### Post-doc

- 2016 **Shane Mansfield**, *Grants from Fondation Sciences Mathématiques de Paris* .

### 5 Master Internships

## Participation to Research Projects

- 2014–2019 **ANR JCJC project Rapido**, *member*, with A. Saurin (Principal Investigator).
- 2013–2016 **ANR JCJC project COQUAS**, *member*, with M. Pagani (Principal Investigator).