

FSCD Steering Committee Election 2019

Olivier Laurent

Elements of Biography

I am currently Senior Researcher (Directeur de Recherche) at CNRS, attached to the Computer Science lab of ENS Lyon (France). Before that I used to work in Paris and Marseille (PhD). I have been the PhD (co-)advisor of 8 PhD students.

My main research interests cover: proof theory [Lau16], linear logic [Lau99, Lau18], intersection types, termination proofs, interactive theorem proving [Lau19], game semantics [Lau10], implicit computational complexity [LTdF06], concurrency theory, etc.

Here are some committees I have been involved in, and some research groups I have been in charge of:

- PC member of TLCA 2007, FoSSaCS 2012, LICS 2012, CSL 2013, MFPS 2015, FSCD 2020
- PC chair of GaLoP 2010, TLLA 2019
- SC member of the international GaLoP workshops on game semantics since 2011
- Plume research-team leader 2009–2012
- Head of the French research group “GeoCal” (Geometry of Computation) 2013–2018

Statement

I have served in 2013–2018 as the head of the French group “GeoCal” (Geometry of Computation) gathering now more than 150 people from all the French research teams around logic and computation. Roughly speaking, the topics of GeoCal correspond to those of the past TLCA conference. While the end of my term was coming, I have been involved in active reorganisation of the GeoCal group, making it evolve into something larger in the spirit of FSCD. I am deeply convinced this is the good direction and the right scientific perimeter for the development of our research area.

Based on this experience, I would be pleased to continue working in such directions at an international level. The Steering Committee of FSCD seems to me to be the best place for this.

FSCD is still a young conference but with a very strong history through RTA, TLCA and the RDP joint meetings. Each time I have participated in these events it has been a great pleasure and scientifically very fruitful. I would like to participate actively in the ongoing development of FSCD and to serve our community in providing a major event for scientific progress and scientific exchanges.

Selected Publications and Developments

- [Lau99] Olivier Laurent. Polarized proof-nets: proof-nets for LC (extended abstract). In Jean-Yves Girard, editor, *TLCA '99*, volume 1581 of LNCS, 1999.
- [LTdF06] Olivier Laurent and Lorenzo Tortora de Falco. Obsessional cliques: a semantic characterization of bounded time complexity. In *Proceedings of LICS*, 2006.
- [Lau10] Olivier Laurent. Game semantics for first-order logic. *Logical Methods in Computer Science*, 6(4):3, 2010.
- [Lau16] Olivier Laurent. Focusing in orthologic. In Delia Kesner and Brigitte Pientka, editors, *1st FSCD International Conference*, volume 52 of LIPIcs, 2016.
- [Lau18] Olivier Laurent. Around classical and intuitionistic linear logics. In *Proceedings of LICS*, 2018.
- [Lau19] Olivier Laurent. Yalla 2.0: Yet another deep embedding of linear logic in Coq. Coq library, 2019. Available at <https://perso.ens-lyon.fr/olivier.laurent/yalla/>.

Full publication list available at <https://perso.ens-lyon.fr/olivier.laurent/>