



Alexandre Fernandez

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Born 26 November 1995

WORK EXPERIENCE

October 2018 – present

PhD with teachings - ATER

LACL, University Paris-Est Créteil

- Formal study and implementation of Global Transformations
- Category theory, synchronous rewriting, dynamical systems

February – August 2018

Internship in research

LIP6, Sorbonne University (UPMC): Algorithmic of Connexity in temporal graphs

May – August 2016

Internship in R&D

Go IT, Paris

PUBLICATIONS

- 2022 Fernandez, A., Maignan, L., Spicher, A. (2022). Non-Determinism in Lindenmayer Systems and Global Transformations. In preparation for MFCS'22.
- 2021 Fernandez, A., Maignan, L., Spicher, A. (2021). Accretive Computation of Global Transformations of Graphs. Ramics'21.
- 2021 Fernandez, A., Maignan, L., Spicher, A. (2021). Cellular Automata and Kan Extensions. Automata'21.
- 2021 Fernandez, A., Maignan, L., Spicher, A. (2021). The Bicategory of Open Functors. arXiv preprint arXiv:2102.08051.
- 2019 Fernandez, A., Maignan, L., Spicher, A. (2019, June). Lindenmayer systems and global transformations. In International Conference on Unconventional Computation and Natural Computation (pp. 65-78). Springer, Cham.

TEACHINGS

- 2021-2022 ATER - Université Paris-Est Créteil
 - L3 informatique: Grammaires algébriques et interprétation.
 - L2 informatique: Combinatoire et Graphes, Automates et Languages, Programmation événementielle, Compression - codage - cryptographie, Programmation Fonctionnelle, Programmation Web.
- 2018-2021 IUT Sénart Fontainebleau
 - DUT1 informatique: Analyse, Développement Web

RESPONSIBILITIES

- 2019-2022 Ph.D students representative in laboratory council
- 2019-2021 Organizing weekly workshop with Ph.D students of Lacl

EDUCATION

- 2016 – 2018 **Master in computer science**
Sorbonne University (UPMC)
- 2013 – 2016 **Bachelor in mathematics and computer science**
University Paris-Est Créteil