

Jonas LEFÈVRE

Address :

Room 5

12 Nottinghamroad

LE11 1EU LOUGHBOROUGH

LEICESTERSHIRE

Mobile Phone Number: +33 6 13 36 40 49

E-mail: jonas.lefevre@ens-lyon.org

Research Experience

- Sep. 2017– Aug. 2018** : Postdoctoral internship at the University of Loughborough, United Kingdom.
- Sep. 2016– Aug. 2017** : Postdoctoral internship at IRIF laboratory, University of Paris-Diderot, France.
- Sep. 2015– Aug. 2016** : Postdoctoral internship at the University of Paderborn, Germany.
- Sep. 2014– Aug. 2015** : Postdoctoral internship at I3S laboratory, University of Nice, France.
- Sep. 2010 – Dec. 2014** : PhD in Computer Science at LIX (Laboratory of École Polytechnique), Palaiseau, France.
Thesis title : *Population Protocol : a hierarchy and some variants. Self-stabilizing algorithms for approximations of the maximum matching.*
- Mars – July 2010** : Internship at LIX, Palaiseau, France.
Subject: *Caring about the topology in the Population Protocol model.*
- May – July 2009** : Internship at the Justus-Liebig Institute, Giessen, Germany.
Subject: *Minimization of One-Way Cellular Automata.*
- June – July 2008** : Internship at LRI (Computer Science Laboratory of University Paris XI), Orsay, France.
Subject: *Nash-equilibrium for games on graphs.*

Education

- 2008 – 2010** : Master in Computer Science at the *École Normale Supérieure* (higher education establishment training teacher and researcher) of Lyon with distinction.
- 2007 – 2008** : *Licence d'Informatique Fondamentale* (Bachelor degree in Computer Science) in *École Normale Supérieure* of Lyon.
- 2004 – 2007** : Three-year highly selective classes to prepare for the competitive exams to the Grandes Ecoles in mathematics and physic, Orléans, France.
Successful in the competitive examination for the *École Normale Supérieure* of Lyon.

Publications

- *Self-healing Routing and Other Problems in Compact Memory*, Castañeda A., Lefèvre J., Trehan A., arXiv and submitted to PODC 2018.
- *Self-stabilizing Metric Graphs*, Gmyr R., Lefèvre J., Scheideler C., Theory Comput. Syst., 2017.
- *Self-stabilizing Metric Graphs*, Gmyr R., Lefèvre J., Scheideler C., SSS 2016.
- *The Manne et al. self-stabilizing 2/3-approximation matching algorithm is sub-exponential*, Cohen J., Lefèvre J., Maâmra K., Manoussakis G., Pilard L. et Sohier D., arXiv, 2016.
- *A Self-stabilizing Algorithm for Maximal Matching in Anonymous Networks*, Cohen J., Lefèvre J., Maâmra K., Pilard L. et Sohier D., Parallel Processing Letters (PPL), Volume 26, Issue 04, 2016.

- *Population Protocols on Graphs: A Hierarchy*, Bournez O., Lefèvre J., SCW 2013.
- *Population Protocols on Graphs: A Hierarchy*, Bournez O., Lefèvre J., UCNC 2013.
- *On Trustful Population Protocols*, Bournez O., Lefèvre J., Rabie M., DISC 2013.
- *The Size of One-Way Cellular Automata*, Kutrib M., Lefèvre J., Malcher A., DMTCS Proceedings, Automata 2010.

Teaching Experiences

hiver 2017 : University of Loughborough (UK)

- **Functional Programming (Haskell)**, first year of licence.

2016 – 2017 : Teaching assistant at the University of Paris-Diderot Various classes :

- **Programming in Python**, first year of licence.
- **Programming in C**, third year of licence and first year of master.
- **Algorithmic**, first year of master.
- **Theoretical and practical Concurrency**, first year of master.

2014 – 2015 : Teaching assistant at the University of Nice

Various classes :

- **Unix system**, first year of licence.
- **General Computer Science**, first year of licence.
- **Object-oriented programming in Python**, first and second year of licence.
- **Probability**, third year of licence and first year of master.
- **System for Network**, third year of licence.

2011 – 2014 : Teaching assistant at the University Institute of Technology of Orsay

Various classes in Computer Science:

- **Algorithmic and Programming**, first year.
- **Computer Architecture**, first year.
- **Graph theory and Language theory**, second year.

Languages

- **French**, mother tongue
- **English**, fluent
- **German**, fluent

Computer skills

- Programming languages : C, C++, Caml, Python, Haskell, L^AT_EX
- Operating system : Linux (Debian), Windows