

# Romaric Duvignau

c/o Chalmers, CSE / Networks and Systems  
412 96 Gothenburg, Sweden  
☎ +46 31 772 69 76  
✉ duvignau@chalmers.se  
🏠 www.cse.chalmers.se/~duvignau

Assistant Professor

## Education

- 2012-2015 **Computer Science Ph.D.**, *University of Bordeaux, Maintenance and simulation of dynamic random graphs*, under the supervision of Pr Philippe Duchon, defended on 2015-10-16.
- 2010-2012 **MSc in Computer Science**, *University of Bordeaux*, Mention Very well (highest honours).

## Employment record

- 2020- **Assistant Professor**, *Chalmers University of Technology*, Gothenburg (Sweden).
  - Department of *Computer Science and Engineering*, division *Networks and Systems* NS, subgroup *Distributed Computing and Systems* DCS.
  - Teaching in CSE BSc and *Computer Systems and Networks* Master's program.
- 2017-2019 **Postdoctoral Researcher**, *Chalmers*.
  - CSE, NS/DCS and teaching in CS programs (20% of employment time).
- 2016-2017 **Research and Teaching Fellow**, *Aix-Marseille University*, Marseille (France).
  - LIF, team: *Distributed Algorithms*, teaching in the CS department of Aix-Marseille University.
- 2012-2016 **PhD (2012-2015); Research and Teaching Fellow (2015-2016)**, *LaBRI*, Talence (Fr.).
  - Teams: *Distributed Algorithms* and *Enumerative and Algebraic Combinatorics*.
  - Teaching at (under)grad. level in the CS dept. of the University of Bordeaux (96h, 2015-2016).
  - Teaching at the University Institute of Technology of Bordeaux (64 hours yearly, 2012-2015).
  - Research internships in Formal Methods team of LaBRI (1.5 month, 2011; 6 months, 2012).

## Research & Supervision

- International Conferences
  - R. D., B. Havers, V. Gulisano, M. Papatriantafilou, **Querying Large Vehicular Networks: How to Balance On-Board Workload and Queries Response Time?** IEEE ITSC 2019, 2604-2611.
  - R. D., M. Papatriantafilou, K. Peratinos, E. Nordström, P Nyman, **Continuous Distributed Monitoring in the Evolved Packet Core**. ACM DEBS 2019, 187-192.
  - B. Havers, R. D., H. Najdataei, V. Gulisano, A. C. Koppisetty, M. Papatriantafilou, **DRIVEN: a framework for efficient Data Retrieval and clusterIng in VEhicular Networks**. IEEE ICDE 2019, 1850-1861.
  - R. D., V. Gulisano, M. Papatriantafilou, V. Savic. **Streaming Piecewise Linear Approximation for Efficient Data Management in Edge Computing**. ACM SAC 2019, 593-596.
  - P. Duchon, R. D., **Local Update Algorithms for Random Graphs**. LATIN 2014, 367-378.
  - P. Duchon, R. D., **A new generation tree for permutations, preserving the number of fixed points**. FPSAC 2014, 679-690.
- Journals
  - Havers, B., Duvignau, R., Najdataei, H., Gulisano, V., Papatriantafilou, M., Koppisetty, A. C. **DRIVEN: A framework for efficient Data Retrieval and clustering in Vehicular Networks**, *Future Generation Computer Systems*, 2020, 107:1-17.
  - P. Duchon, R. D., **Preserving the Number of Cycles of Length  $k$  in a Growing Uniform Permutation**, *The Electronic Journal of Combinatorics*, 2016, 23(4):4-22.
  - J. Bensmail, R. D., S. Kirgizov, **On the complexity of turning a graph into the analogue of a clique**, *Discrete Mathematics and Theoretical Computer Science*, 2016, 17(3):31-42.
- Reviews
  - IEEE Intelligent Transportation Systems Conference (ITSC).
  - ACM International Conference on Distributed and Event-Based Systems, (DEBS).
  - IEEE Transactions on Knowledge and Data Engineering (TKDE).
  - International Colloquium on Automata, Languages, and Programming (ICALP).
  - IEEE International Parallel & Distributed Processing Symposium (IPDPS).
- Supervision
  - High performance investigations in EPG (Master Thesis CTH/Ericsson 2020).
  - 5G Cloud Native Load Simulator (Master Thesis CTH/Ericsson 2020).
  - EPGTOP: A tool for continuous monitoring of a distributed system (MT CTH/Ericsson 2019).
  - Technical writing groups (2018-2019, graduate course).
  - Full-time Bachelor Projects on android developments (IUT Bordeaux, 2013-2015).