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Heger Arfaoui

Ph.D. in Theoretical Computer Science

Assistant Professor

Discrete Mathematics, Algorithms, Graph Theory

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## EDUCATION

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| 2014 | Ph.D. in Theoretical Computer Science, University of Paris Denis Diderot, France |
| 2010 | Master in Engineering, Ecole Centrale Paris, France                              |

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## RESEARCH INTERESTS

Distributed algorithms; Graph Theory; Networks; Decision problems; Randomness; Quantum information

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## EMPLOYMENT EXPERIENCE

### ACADEMIC:

**Assistant Professor** (Medtech), 2015 – now  
Discrete Mathematics, Algorithms, Graph Theory

**Research Assistant** (LIAFA - University of Paris Diderot), 2010 - 2014  
Part of the Graph and Distributed Algorithms group; Contributed with publications in top-tier conferences, seminars and group projects.

**Teaching Assistant** (University of Paris Diderot), 2010 - 2014  
Introduction to Computer Science ... Algorithms ... Data Structures and Object-Oriented Programming ... Graph Algorithms  
... Analytics of Complex Networks

## INTELLECTUAL CONTRIBUTIONS

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- Local Distributed Decision and Verification, *H. Arfaoui, PhD thesis.*
- Distributively deciding cycle freeness, *H. Arfaoui, P. Fraigniaud, D. Ilcinkas, and F. Mathieu, preprint.*
- What can be computed without communications? *Journal version, H. Arfaoui, P. Fraigniaud, sigact-News, volume 45, 2014*
- Local decision and verification with bounded-size outputs, *H. Arfaoui, P. Fraigniaud and A. Pelc, 15<sup>th</sup> International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS '13)*
- A review of Sirocco 2012, *H. Arfaoui, SIGACT-News, volume 44, 2013*
- What can be computed without communications? *H. Arfaoui, P. Fraigniaud, 19th International Colloquium on Structural Information and Communication Complexity (SIROCCO '12)*
- Brief announcement: what can be computed without communications? *H. Arfaoui, P. Fraigniaud, 31st Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC '12)*

## SCIENTIFIC PRIZES AND AWARDS / GRANTS

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- **Best Paper Award**, 15th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS '13)
- ACM travel grant (PODC '12), NSF travel grant (Women in Theory Workshop 2014)

**EDITORIAL ACTIVITY**

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**Reviewer in an academic journal**

Year                      Journal of .....

**INSTITUTIONAL SERVICE**

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*Please list and provide details on each institutional service you may have contributed to:*

**Supervision of Ph.D. Thesis**

Year                      Title, Thesis title

**Contribution to an international academic partnership**

Year                      Facilitation of the Organization of ....., Country

**Extensive contribution to a corporate partnership**

Year                      Executive Education Programs, University, Country

**Head of a recruitment jury**

Year                      Admission Exams, University, Country

**Participation in a pedagogical café**

Year                      Admission Exams, University, Country