

Keno Merckx

Curriculum vitae

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Date and place of birth:
March 19 1989, Uccle (Belgium)
Nationality: Belgian



Education

- 2019 **Ph.D. in Computer Science**, *Université libre de Bruxelles*.
Thesis: Optimization and Realizability Problems for Convex Geometries.
- (Sept. 2019) **MA.spe. in Data Science**, *Université libre de Bruxelles*.
Orientation: Statistics.
- 2018 **MA. in Management**, Magna Cum Laude, *Solvay Brussels School*.
Orientation: Quantitative Finance.
- 2013 **MA.Sc. in Mathematics**, Magna Cum Laude, *Université libre de Bruxelles*.
Orientation: Optimization and Algorithms.
- 2011 **BA.Sc. in Mathematics**, *Université libre de Bruxelles*.
Orientation: Computer Science.
- 2007 **Secondary school**, *Athénée Royale de Waterloo*.
Orientation: Mathematics.

Experience

- 2013–now **Researcher**, for the Computer Science Department, *Université libre de Bruxelles*.
Member of the Algorithms Research Group. In charge of exercise sessions such as *Modeling and simulation*, *Numerical Analysis*, *Graphs and Networks*, *Programming Languages and Algorithmics*.
- 2012 **Graduate assistant**, *Université libre de Bruxelles*.
Mathematics tutoring service for students in medical science.
- 2005–2007 **Volunteer**, *Les Jeunes Magasins-Oxfam*, Waterloo, Belgium.
Stock management.

Computer skills

- Compiled Lang.: C, C++, Java.
- DBMS: MongoDB, MySQL.
- Math. Tools: Matlab, FICO Xpress, Processing, R.
- Markup Lang.: HTML.
- Office: Latex, Microsoft Office, OpenOffice.
- OS: Linux, MacOS, Windows.
- Scripting Lang.: Bash, Python.

Publication

- 2019 **Finding a maximum-weight convex set in a chordal graph**, *J. Cardinal, J.-P. Doignon, K. Merckx*, Journal of Graph Algorithms and Applications, Vol 23 no. 2.
- 2018 **SETLA: signature and encryption from lattices**, *F. Gérard, K. Merckx*, Cryptology and Network Security, Vol 17.
- 2018 **A universality theorem for allowable sequences with applications**, *U. Hoffmann, K. Merckx*, In revision.
- 2017 **On the shelling antimatroids of split graphs**, *J. Cardinal, J.-P. Doignon, K. Merckx*, Discrete Mathematics & Theoretical Computer Science, Vol 19 no. 1.

Talk at conferences

- Octobre 2018 **JGA**, *Graphs and Algorithms Days*, Grenoble, France.
- June 2016 **CTW**, *Cologne Twente Workshop on Graphs and Combinatorial Optimization*, Gargnano, Italy.
- January 2016 **ORBEL**, *30th Conference of the Belgian Operational Research Society*, Louvain-la-Neuve, Belgium.
- August 2015 **BSSM**, *8th Brussels Summer School of Mathematics*, Brussels, Belgium.
- July 2014 **ICGT**, *9th International Colloquium on Graph Theory and Combinatorics*, Grenoble, France.

Languages

- French** Native language
- English** Good knowledge
- Dutch** School level

Other projects

- 2016–2019 Board member of the *Faculty of Sciences* at ULB.
- 2014–2019 Member of *Computer science department* at ULB.
- 2014–2019 Organizer of the *Brussels Summer School of Mathematics*.
- 2015–2018 Organizer of the *Mathematics PhD Seminars* at ULB.
- 2015–2018 Member of the scientific committee for the *Graduate School in Computing Science*.
- 2015 Jury member for the *Be-hackathon*.

Miscellaneous

European Driving Licence Group B

Personal information

- Interests Chess, cinema, computer games, old and new technology, poker, travelling.
- Soft skills Critical thinker, fast learner, flexible, problem-solving oriented, team player.