

Muller Carole Marie-Jo

Curriculum Vitae

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E-mail : camuller@ulb.ac.be

Office : O8.201, NO Building, Plaine Campus

Phone (Office) : (+32) 02 650 59 01

Université Libre de Bruxelles, Mathematics Department
Algebra and Combinatorics Research Group
Boulevard du Triomphe CP216, 1050 Ixelles, Belgium



Education

- September 2017 - present : **PhD Candidate in Mathematics (Graph Theory)**
Université Libre de Bruxelles, Supervisors : S. Fiorini and G. Joret
- 2015 - 2017 : **Master in Mathematics (Research Focus)**
Université Libre de Bruxelles, grade : *la plus grande distinction (greatest honors)*
Title of the Master's thesis : *Excluded Minors for Isometric Embeddings of Graphs in l_∞^k -spaces*
(Supervisors : S. Fiorini and G. Joret)
- 2012 - 2015 : **Bachelor in Mathematics (Orientation : Computer Science)**
Université Libre de Bruxelles, grade : *distinction*

Grant

- **AFR PhD** by National Research Fund Luxembourg (FNR), 2017 - 2021
Excluded Minors for Isometric Embeddings and Network Design (EMIEND)
Grant Agreement Nr 11628910

Publications

- Samuel Fiorini, Tony Huynh, Gwenaël Joret, Carole Muller. *Unavoidable minors for graphs with large ℓ_p -dimension*. Preprint, arXiv:1904.02951.

Talks

- *Excluded Minors for Embeddings of Metric Graphs in ℓ_∞^n -Spaces*
Ninth Cargèse Workshop on Combinatorial Optimization. October 16, 2018. Cargèse, France.
7th Polish Combinatorial Conference (7PCC). September 26, 2018. Bedlewo, Poland.
International Colloquium on Graph Theory (ICGT 2018). July 11, 2018. Lyon, France.
- *LE LIVRE des maths existe-t-il ?*
Brussels Summer School of Mathematics (BSSM 2018). September 3, 2018. Université Libre de Bruxelles, Belgium.
- *Graphes, distances et couleurs : à la recherche de structures interdites*
Ma thèse en 180 secondes (MT180). Finale universitaire. March 24, 2018. ULB, Belgium.
- *Plongements de graphes métriques dans ℓ_∞^n*
Journées Graphes et Algorithmes (JGA 2017). November 15, 2017. LaBRI Bordeaux, France.
- Seminar of the Algorithms Research Group (ULB) :
 - *Excluded Minors for Isometric Embeddings of Graphs in l_∞^k -spaces*. May 31, 2017.
 - *Minkowski Sum and Pontryagin Difference*. May 25, 2016.

Attended Conferences, Workshops, Summer Schools

- **Journées Graphes et Algorithmes (JGA2018)**. G-SCOP Grenoble, France. November 14-16, 2018.
- **Ninth Cargese Workshop on Combinatorial Optimization**. Cargèse, France. October 15-19, 2018.
- **7th Polish Combinatorial Conference (7PCC)**. Bedlewo, Poland. September 24-28, 2018.
- **Fall School : Order and Geometry**. Sauen, Germany. September 13-17, 2018.
- **Prague Summer School on Discrete Mathematics (PSSDM 2018)**. Prague, Czech Republic. July 16-20, 2018.
- **International Colloquium on Graph Theory and Combinatorics (ICGT 2018)**. Lyon, France. July 9-13, 2018.
- **Building Bridges II**. Budapest, Hungary. July 2-6, 2018.
- **Budapest Summer School in Mathematics (SSM 2018)**. Budapest, Hungary. June 25-29, 2018.
- **School in Graph Theory (SGT 2018)**. Sète, France. June 11-15, 2018.
- **Journées Graphes et Algorithmes (JGA2017)**. LaBRI Bordeaux, France. November 15-17, 2017.
- **Brussels Summer School of Mathematics (BSSM)**. Université Libre de Bruxelles, Belgium. August 1-7, 2013, August 4-8, 2014, August 3-7, 2015, August 1-5, 2016, August 28 - September 1, 2017. **Co-organizer** of the 11th edition, September 3-7, 2018.

Teaching

I served as teaching assistant for the following courses at Université Libre de Bruxelles.

- *MATHF-306 Optimisation*, Spring 2018, Spring 2019.
- *MATHF-307 Mathématiques discrètes*, Fall 2017, Fall 2018.
- *Guidance en mathématique* for first year students of the Faculty of Science, 2014-15, 2015-16, 2016-17.

Skills

- **Languages**. Mother tongue : Luxembourgish. Fluent : German, French, English.
- **Programming**. Good knowledge in *Python*, basic notions in *C++*, *Java*, *Javascript*, *Pascal*
- **Music education** (Conservatory of Luxembourg City). Chant (1^{er} cycle, 2018), saxophone (1^{er} prix, 2012), chamber music (1^{er} prix, 2012), harmony (1^e mention, 2010), violin (1^e mention, 2009), music theory (1^{er} prix, 2006)

Other Activities

- Participation at *Ma thèse en 180 secondes (MT180)*, ULB 2018
- Co-organizer of the *Brussel's Summer School of Mathematics (BSSM)*, 2018, 2019
- Scientific staff representative at the Department of Mathematics (ULB), 2017 - present
- Student representative at the Department of Mathematics (ULB), 2014 - 2017
- Student representative at the Faculty of Sciences (ULB), 2014
- Amateur musician in several wind bands (saxophone) and orchestra (violin)