Antoine Dailly

Curriculum Vitae

Education

2015–2018 **PhD in Computer Science (Ministry of Higher Education and Research funding)**, *Université Claude Bernard Lyon I, LIRIS, GOAL team*, Lyon, France.
Criticality, identification and vertex deletion games on graphs
Director : Hamamache Kheddouci.
Advisors : Aline Parreau et Éric Duchêne.
Defended on September 27th 2018.

2014–2015 **Master's Degree in Computer Science – Artificial Intelligence specialization**, *Université Claude Bernard Lyon I*, Lyon, France, with honors, ranked 1/22.

2013–2014 **Master 1 in Computer Science**, *Université Claude Bernard Lyon I*, Lyon, France, with honors, ranked 2/98.

2012–2013 **Bachelor's Degree in Theoretical Computer Science**, *École Normale Supérieure de Lyon*, Lyon, France.

2011–2012 **Licence 2 in Mathematics and Computer Science**, *Université Montpellier II*, Montpellier, France, with honors.

2010–2011 **Classe Préparatoire aux Grandes Écoles – Mathematics, Physics and Industrial Sciences specialization**, *Lycée Pierre de Fermat*, Toulouse, France.

2010 **High School Diploma – Mathematics specialization**, *Lycée Georges Clemenceau*, Montpellier, France, with honors.

Work Experience

since 2019 **Postdoc**, *Instituto de Matemáticas, National Autonomous University of Mexico*, Juriquilla.
Research in graph theory.
Teaching in computability and complexity.

2018–2019 **ATER (assistant teacher and researcher)**, *Université Grenoble Alpes, G-SCOP, OC team*, Grenoble, France.
Tutorials and practical courses in Computer Science (135h)
Domains taught : Graphs, Complexity, Operational Research, Algorithmics, Programming in Python and Compilation.
Research in graphs and combinatorics (reconfiguration, combinatorial games, criticality).

2015–2018 **Assistant teacher**, *ISFA*, Lyon, France.
Lectures, tutorials and practical courses in Computer Science (198h)
Domains taught : Unix, Algorithmics, Programming in Python, C++ and Java

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2015–2018 **Scientific popularization**, *Maths à Modeler*, Lyon, France.
Introduction to research in Mathematics and Theoretical Computer Science directed towards primary and secondary students

2011–2015 **Mentoring**.
Mentoring of secondary and superior students in Mathematics, Algorithmics, Theoretical Computer Science and Programming

Research stays and internships

2017 **Research stay**, *Instituto de Matemáticas*, Juriquilla, Mexico.
Two-months research stay to study the Murty-Simon Conjecture.
Mentor : Adriana Hansberg.

2015 **Research internship**, *LIRIS – GOAL team*, Lyon, France.
Five-months internship on octal games on graphs.
Advisors : Aline Parreau and Éric Duchêne

2014 **Research internship**, *ERIC*, Lyon, France.
Two-months internship on the adaptation of multi-agents paradigm to the Map&Reduce model.
Advisor : Nadia Kabachi

2013 **Research internship**, *INRIA Sophia Antipolis – WIMMICS team*, Valbonne, France.
Three-months internship on semantic similarity measures.
Advisors : Elena Cabrio and Julien Cojan

Publications in international journals

2019 **Dailly, A., Moncel, J. & Parreau, A. (2019). Connected Subtraction Games on Subdivided Stars. *INTEGERS*, 19**.

Dailly, A., Foucaud, F. & Hansberg, A. (2019). Strengthening the Murty-Simon conjecture on diameter 2 critical graphs. *Discrete Mathematics*, 342(11), 3142-3159.

2018 **Dailly, A., Gledel, V., & Heinrich, M. (2018). A generalization of Arc-Kayles. *International Journal of Game Theory*, 48(2), 491-511**.

Beaudou, L., Coupechoux, P., Dailly, A., Gravier, S., Moncel, J., Parreau, A., & Sopena, E. (2018). Octal Games on Graphs : The game 0.33 on subdivided stars and bistars. *Theoretical Computer Science*, 746, 19-35.

2017 **Bousquet, N., Dailly, A., Duchene, E., Kheddouci, H., & Parreau, A. (2017). A Vizing-like theorem for union vertex-distinguishing edge coloring. *Discrete Applied Mathematics*, 232, 88-98**.

Papers submitted in international journals

Partition games, with E. Duchêne, U. Larsson and G. Paris.
`https://hal.archives-ouvertes.fr/hal-01723190`
`https://arxiv.org/abs/1803.02621`

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Talks in international conferences

July 2018 ***A strengthening of the Murty-Simon Conjecture***, *ICGT 2018*, Lyon, France.

November 2016 ***A Vizing-like theorem for union vertex-distinguishing edge coloring***, *BGW 2016*, Bordeaux, France.

Talks in national conferences

November 2018 ***Renforcer la conjecture de Murty-Simon sur les graphes critiques de diamètre 2*** , *JGA 2018*, Grenoble, France.

November 2016 ***Coloration d'arêtes union-distinguante***, *JGA 2016*, Paris, France.

November 2015 ***Jeux octaux sur les graphes : 0.03***, *JGA 2015*, Orléans, France.

Talks in seminars and colloquia

September 2019 ***A strengthening of the Murty-Simon Conjecture for diameter 2 critical graphs***, *Seminario Preguntón*, UNAM Juriquilla, Mexico.

April 2019 ***Jeux octaux dans les graphes***, *Séminaire LIS*, Marseille.

March 2019 ***Jeux octaux dans les graphes***, *Séminaire LIB*, Dijon.

January 2019 ***Jeux octaux dans les graphes***, *Séminaire Optimisation Combinatoire*, Bordeaux.

January 2019 ***Connected Subtraction Games on Graphs*** , *CGTC3*, Lisbonne.

December 2018 ***Jeux octaux dans les graphes***, *Séminaire AlCoLoCo*, Clermont-Ferrand.

December 2017 ***Rooks and* Arc-Kayles**, *Seminario Preguntón*, UNAM Juriquilla, Mexico.

January 2017 ***Octal Games on Graphs*** , *CGTC2*, Lisbon, Portugal.

April 2016 ***Coloration d'arêtes union-distinguante***, *SIF PhD students' seminar*, Paris, France.

October 2015 ***Octal games on graphs : 0.03 and 0.33*** , *Graphes@Lyon*, Lyon, France.

Responsibilities

2013–2015 **Voluntary activities**, *AML (Association des Miagistes et Informaticiens de Lyon), a student organization*, Lyon, France.
Active volunteer (2013–2014), then secretary of the organization (2014–2015)

2013–2015 **Student representative**, *Computer Science Department Council*, Lyon, France.
2013–2015

Special Skills

French Native speaker

English Fluent, C1 level *B2 level validated by the CLES in 2013*

Spanish Basic

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Theoretical Computer Science	Algorithmics, Combinatorial Game Theory, Graph Theory, Complexity Theory
Programming Languages	C/C++, Java, LaTeX, Python, OCaml, Scheme
Systems	Linux, Windows

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