

Laurent Beaudou

CONTACT INFORMATION	LIMOS D005 Complexe scientifique des Cézeaux 63173 Aubière – FRANCE	<i>Voice:</i> (+33)47-340-7358 <i>Fax:</i> (+33)47-340-7639 <i>E-mail:</i> labeaudo@univ-bpclermont.fr <i>WWW:</i> www.isima.fr/~beaudou/
CITIZENSHIP	French	
RESEARCH INTERESTS	Topological graph theory, Crossing number, Metric concepts in graphs, Coding theory, Lattice theory.	
POSITION	Polytech Clermont-Ferrand , Clermont-Ferrand, France Associate professor September 2010 to present <ul style="list-style-type: none">• Topic : Graph theory, operationnal research Université Bordeaux I , Bordeaux, France Post-doctoral position March 2010 to August 2010 <ul style="list-style-type: none">• Topic : Graph theory, identifying code• Hosts : Professors Ralf Klasing and André Raspaud Université de Montréal and Concordia University , Montreal, Canada Post-doctoral position September 2009 to March 2010 <ul style="list-style-type: none">• Topic : Discrete convexity, Graph theory• Hosts : Professors Vašek Chvátal and Geña Hahn	
EDUCATION	Université Joseph Fourier , Grenoble, France Ph.D., Mathematics and Computer Science June 2009 <ul style="list-style-type: none">• Thesis Topic: Graph embeddings• Advisor: Professor Sylvain Gravier	
SUPERVISING	Ph.D. students <ul style="list-style-type: none">• Perret du Cray Henri (2014 to present)• Kaoutar Ghazi (2013 to 2017) Master students <ul style="list-style-type: none">• Guilherme Martino (2014)• Alexandre Chaumet (2012)	

RESEARCH
PROJECTS

Head of:

- *From Moore to Frankl* (M2F) supported by Région Auvergne, 2013–2016
90 000 euros

Part of:

- ANR *HOGRASI*, 2018-2021.
- ANR *DISTANCIA*, 2017-2020.
- ANR *GraphEn*, 2015-2019.
- ANR *GAG*, 2015-2019.
- PEPS *MISERE*, 2012–2014.
- PEPS *HOGRASI*, 2012–2014.
- ANR *IDEA*, 2009–2012.

ADMINISTRATIVE
TASKS

Organizer: Journées Graphes et Algorithmes 2012 (Clermont-Ferrand).

Program Committee: Journées Graphes et Algorithmes.

Referee for various scientific journals and conferences.

TEACHING
EXPERIENCE

Polytech Clermont-Ferrand, Clermont-Ferrand, France.

Combinatorial Optimization **September 2010 to present**

- Third year B.Sc. students, first and second year M.Sc students

Databases **September 2011 to present**

- Third year B.Sc. students.

Université Joseph Fourier, Grenoble, France.

Programming methods **September 2008 to June 2009**

- Second year B.Sc. students.

Algorithmic basics **September 2006 to June 2008**

- First year B.Sc. students.

Algorithmic basics **September 2005 to June 2006**

- Evening courses for slow students.

Other teaching experiences,

Linear Programming **November 2009**

- Lecture for Concordia grad students
- Montreal, Canada.

Constraint Programming **June 2007**

- Lectures for French Navy Officers
- Toulon, France.

Maple and algorithmics **September 2005 to March 2006**

- Students preparing engineering schools examinations
- Lectures and conception of exercices.

RECENT
PUBLICATIONS

L. Beaudou, F. Foucaud and R. Naserasr
Homomorphism bounds and edge-colourings of K_4 -minor-free graphs.
J. Comb. Theory, Ser. B 124: 128-164 (2017)

L. Beaudou, A. Mary and L. Nourine
Algorithms for k -meet-semidistributive lattices.
Theor. Comput. Sci. 658: 391-398 (2017)

L. Beaudou, A. Bondy, X. Chen, E. Chiniforooshan, M. Chudnovsky, V. Chvátal,
N. Fraiman and Y. Zwols
A De Bruijn-Erdős Theorem for Chordal Graphs.
Electr. J. Comb. 22(1): P1.70 (2015)

L. Beaudou, R. Naserasr and C. Tardif
Homomorphisms of binary Cayley graphs.
Discrete Mathematics 338(12): 2539-2544 (2015)

L. Beaudou, É. Duchêne and S. Gravier.
A survey about Solitaire Clobber.
Games of No Chance 4 (book)
MSRI Publ. (R.J. Nowakowski, ed.), Vol. 63, Cambridge University Press (2015)

L. Beaudou, A. Bondy, X. Chen, E. Chiniforooshan, M. Chudnovsky, V. Chvátal,
N. Fraiman and Y. Zwols
Lines in hypergraphs.
Combinatorica 33(6): 633-654 (2013)

L. Beaudou, C. Hernandez-Vélez and G. Salazar.
Making a graph crossing-critical by multiplying its edges.
Electron. J. Combin. 20, #P61 (2013)

MATHEMATICAL
EXPERTISE

Linear Programming

Graph Theory

Optimization, Scheduling

Game Theory

Complexity