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Jérémie Dumas

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Education

2013– **PhD Thesis in Computer Science** Inria, Nancy, France
(advisors: Bruno Lévy and Sylvain Lefebvre)
Visiting Scholar *(April 2014, April 2016)*
Hong Kong University, Hong Kong

2010–2012 **Master d'Informatique** *(Master Degree in Computer Science)*
École Normale Supérieure de Lyon, France, *mention Bien*
Exchange Student Program *(Winter 2011)*
DIRO, Université de Montréal, Canada

2009–2010 **Licence d'Informatique** *(B.Sc. in Computer Science)*
École Normale Supérieure de Lyon, France, *mention Bien*

2007–2009 **Classe préparatoire aux grandes écoles in Science** *(Undergraduate studies for the competitive entrance exams to the French* grandes écoles, *national institutes of higher education)* Lycée Thiers, Marseille, France

Internships

2013, mar–aug **Building Textured Surface Mesh Models Using Kinect**
under the direction of Janne Heikkilä *and Juho* Kannala
Center for Machine Vision, Oulu, Finland

2012, sep–feb **Sparse Reconstruction and Structure from Motion**
under the direction of Tomáš Pajdla.
Center for Machine Perception, Prague, Czech Republic

2012, feb–jul **Path Graphs Decompositions and Representations**
under the direction of Christophe Crespelle.
Laboratoire d'Informatique et du Parrallélisme, Lyon, France

2011, apr–jul **Solid Texture Generation and Wood Growth Simulation**
under the direction of Pierre Poulin.
Laboratoire d'Informatique Graphique de l'Université de Montréal, Québec

2010, jun–jul **Diffusion in Dynamic Networks**
under the direction of Christophe Crespelle *and Éric* Fleury
Laboratoire d'Informatique de Paris 6, France

Selected Publications

2016, aug **Procedural Voronoi Foams for Additive Manufacturing.** *Jonàs Martínez, Jérémie Dumas, Sylvain Lefebvre.* ACM Transactions on Graphics (TOG) — SIGGRAPH 2016 Conference Proceedings. Volume 35 Issue 4, July 2016.

2015, nov **Structure and Appearance Optimization for Controllable Shape Design.** *Jonàs Martínez, Jérémie Dumas, Sylvain Lefebvre, Li-Yi Wei* ACM Transactions on Graphics (TOG) — SIGGRAPH Asia 2015 Conference Proceedings. Volume 34 Issue 6, November 2015.

2015, aug **By-Example Synthesis of Structurally Sound Patterns.** *Jérémie Dumas, An Lu, Sylvain Lefebvre, Jun Wu, Christian Dick.* ACM Transactions on Graphics (TOG) — SIGGRAPH 2015 Conference Proceedings. Volume 34 Issue 4, July 2015.

2014, aug **Bridging the Gap: Automated Steady Scaffoldings for 3D Printing.** *Jérémie Dumas, Jean Hergel and Sylvain Lefebvre.* ACM Transactions on Graphics (TOG) — SIGGRAPH 2014 Conference Proceedings. Volume 33 Issue 4, July 2014.

Teaching

2013–2016 **Tutorials in Java** *Introduction to Computer Science (B.Sc. course)* ENSEM, Nancy, France

2014–2016 **Tutorials in 3D Printing** *Algorithmic aspects of toolpath generation for filament printers (M.Sc. course)* ENSEM, Nancy, France

Reasearch Interests

Geometric Modeling, Shape Optimization, Digital Fabrication, Discrete Algorithms, Numerical Optimization, Graph Theory, Artificial Intelligence, Computer Vision...

Programmation Skills

Langages Bash, C, C++, Java, OCaml, Lua, Python, Ruby

Softwares Maple, Mathematica, Matlab

Other tools Awk, LaTeX, ns-2, Gnuplot

Librairies Qt, MPI, Tikz, OpenGL, OpenCL, OpenCV, Theano, CGAL

Teamed Programming Contests

2016, feb **Google Hash Code** *Online Qualifications (101 / 1054)*

2011, nov **ACM ICPC**, *Southwestern Europe Regional Contest* (Madrid) *Gold Medal (2nd place)*

Personal Interests

- *Dance*: Rock, Lindy Hop, Blues, Waltz, West Coast Swing ...
- *Art*: Photography, Music, Anime, Literature, Science-Fiction
- *Outdoor*: Medieval Reenactment, Hiking, Swimming, Archery, Ice Skating

Langage

- *French*: Native
- *English*: Advanced
- *Italian, Japanese, Czech, Finnish, French Sign Language*: Basic knowledge

Last Update: June 17, 2016