

Jérémie Dumas

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Education

- 2017–2019** **Assistant Professor/Faculty Fellow**, Courant Institute of Mathematical Sciences, New York, USA (*advisors: Daniele Panozzo and Denis Zorin*)
- 2013–2016** **PhD Thesis in Computer Science**, Inria, Nancy, France (*advisor: 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 Parallélisme, 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

- **Orthotropic k-nearest Foams for Additive Manufacturing.** Jonàs Martínez, Haichuan Song, Jérémie Dumas, Sylvain Lefebvre ACM Transactions on Graphics (TOG) — SIGGRAPH 2017 Conference Proceedings. Volume 36 Issue 4, July 2017.
- **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.
- **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.

- **By-Example Synthesis of Structurally Sound Patterns.** *J r mie Dumas, An Lu, Sylvain Lefebvre, Jun Wu, Christian Dick.* ACM Transactions on Graphics (TOG) — SIGGRAPH 2015 Conference Proceedings. Volume 34 Issue 4, July 2015.
- **Bridging the Gap: Automated Steady Scaffoldings for 3D Printing** *J r mie Dumas, Jean Hergel and Sylvain Lefebvre.* ACM Transactions on Graphics (TOG) — SIGGRAPH 2014 Conference Proceedings. Volume 33 Issue 4, July 2014.

Reviewing Activities

2015	IEEE Transactions on Visualization and Computer Graphics (TVCG)
2015	ACM Symposium on User Interface Software and Technology (UIST)
2016	Eurographics Short Papers
2016	ACM Transactions on Graphics (TOG)
2017	IPC for Eurographics Short Papers
2017	SIGGRAPH
2017	Computers & Graphics
2017	Program Committee for the Graphics Replicability Stamp Initiative
2018	IPC for Shape Modeling International
2018	IPC for Eurographics Short Papers

Teaching

Fall 2017	Main instructor for the class <i>CSCI-UA.0480-008 - Special Topics: Computer Graphics</i> , New York University, New York, USA.
2013–2016	Tutorials in Java , <i>Introduction to Computer Science (B.Sc. course)</i> , ENSEM, Nancy, France.
2014–2016	Tutorials in 3D Printing , <i>Algorithmic aspects of toolpath generation for filament printers (M.Sc. course)</i> , ENSEM, Nancy, France.

Research Interests

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

Programming Skills

Languages	C++, C, Python, Lua, Bash, CMake (Proficient) OCaml, Ruby, Java (Knowledgeable)
Scientific	Maple, Mathematica, Matlab
Other Tools	LaTeX, Awk, ns-2, Gnuplot
Libraries	Qt, MPI, Tikz, OpenGL, OpenCL, OpenCV, Theano, CGAL Numpy, Scipy, Matplotlib, Panda, Plotly

Programming Contests

2016, Feb	Google Hash Code , <i>Online Qualifications, (101 / 1054)</i>
2011, Nov	ACM ICPC , <i>Southwestern Europe Regional Contest, (Madrid) Gold Medal (2nd place)</i>

Personal Interests

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

Language

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