

Damien ROHMER, PhD

Address

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My research interests focus on generating and deforming 3D geometry with high level control, such as for character skinning, wrinkle cloth animation and developable surface modeling.

Research

- Member of **IMAGINE team** at **INRIA**, Grenoble, France.
- Publications:
 - 5 international journal/conference papers (2 ACM SIGGRAPH)
 - 1 book chapter
 - 21 total publications and disseminations
- H-index: 5; Most cited paper: 59; Total citation: 130.

Work experience

- **Associate Professor, CPE Lyon**, France (2010 - today)
- **Teaching assistant**, Polytech Grenoble, France (2007 - 2010)
- **Research assistant**, LBNL, Berkeley, California US (2006 - 2007)

Education

- **PhD** in Computer Graphics, Univ. de Grenoble (2011)
- **Master of Sciences** in Computer Science, Univ. Jean-Monnet, Saint-Etienne (2007)
- **Engineering degree** in CS & Electr. Eng., CPE Lyon (2007)

Selected Publications

- [1] Implicit Skinning: Real-Time Skin Deformation with Contact Modeling. R. Vaillant, L. Barthe, G. Guennebaud, M.-P. Cani, D. Rohmer, B. Wyvill, O. Gourmel, M. Paulin. *ACM Trans. on Graphics (TOG)* 32(4). Proc. of ACM **SIGGRAPH** (2013).
- [2] Diffusion Tensor Magnetic Imagine-Derived Myocardial Fiber Disarray in Hypertensive Left Ventricular Hypertrophy. A. Giannakidis, D. Rohmer, A. Veress, G. Gullberg. **Book Chapter**, *Cardiac Mapping, 4th Edition*, Wiley (2012).
- [3] Animation Wrinkling: Augmenting Coarse Cloth Simulations with Realistic-Looking Wrinkles. D. Rohmer, T. Popa, S. Hahmann, M.-P. Cani, A. Sheffer. *ACM Trans. on Graphics (TOG)* 29(5), Proc. of ACM **SIGGRAPH ASIA** (2010).
- [4] Exact volume preserving skinning with shape control. D. Rohmer, S. Hahmann, M.-P. Cani, *Symp. on Computer Animation (SCA)* (2009).

Teaching & Supervision

- Teaching 200 hours a year in University in Computer Graphics, Computer Science, Signal Processing (totaling more than 700h of teaching experience).
- Responsible for the coordination of the domain *math, signal processing and image*.
- Co-supervision of 2 PhD students:
 - **Ulysse VIMONT**, Natural scene control. (2013-2016)
 - **Camille SCHREK**, Modeling and deforming active shapes. (2013-2016)
- Co-supervision of 3 master students since 2011.

Community & dissemination

- Reviewer for ACM SIGGRAPH, SIGGRAPH Asia, IEEE CG&A.
- Technical briefs and posters committee of SIGGRAPH Asia 2013.
- Author of the *Flat Torus* rendering recognized as one of the 10 most important discover of 2012 by *La Recherche*. Cover page of Proceedings of National Academy of Sciences (PNAS), vol. 109. n.19 (2012).