



Emmanuel TURQUIN

Ph.D. in Computer Graphics

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EDUCATION

- 2004 - 2007 Ph.D. thesis in Computer Graphics at UJF¹, in the ARTIS² team of the LJK³, under the supervision of François X. Sillion.
Six months at Harvard University, in the framework of a collaboration with Professor Steven G. Gortler.
- 2003 - 2004 Master's degree in Computer Graphics at INPG⁴, with honors.
- 1999 - 2003 Engineer's degree in Computer Science at EPITA⁵, first in year.
Member of the LRDE⁶.

PUBLICATIONS

- 2007 [Meshless Finite Elements for Hierarchical Global Illumination](#)
Jaakko Lehtinen, Mattias Zwicker, Janne Kontkanen, Emmanuel Turquin, François X. Sillion, Timo Aila
Technical Report TML-B7, Helsinki University of Technology, May 2007
- [A Sketch-Based Interface for Clothing Virtual Characters](#)
Emmanuel Turquin, Jamie Wither, Laurence Boissieux, Marie-Paule Cani, John F. Hughes
Computer Graphics & Applications, Volume 27 Number 1, January/February 2007
- 2006 [Wavelet Radiance Transport for Interactive Indirect Lighting](#)
Janne Kontkanen, Emmanuel Turquin, Nicolas Holzschuch, François X. Sillion
Eurographics Symposium on Rendering
- 2004 [Programmable Style for NPR Line Drawing](#)
Stéphane Grabli, Emmanuel Turquin, Frédo Durand, François X. Sillion
Eurographics Symposium on Rendering
- [Sketching Garments for Virtual Characters](#)
Emmanuel Turquin, Marie-Paule Cani, John F. Hughes
Eurographics Workshop on Sketch-Based Interfaces and Modeling
- 2003 [A Procedural Approach to Style for NPR Line Drawing from 3D models](#)
Stéphane Grabli, Frédo Durand, Emmanuel Turquin, François X. Sillion
INRIA Research report 4724, February 2003

TEACHING ACTIVITIES

- 2005 Computer Graphics course to 3rd year students at IUT2 of Grenoble.
- 2002 Mathematics course to 3rd year Epitech students.
- 2002 Preparation of a Computer Graphics course for ENST⁷ students.
- 2001 - 2002 Lectures given to computer engineers at the F2I institute in Paris (UNIX, UML, web development).
- 2000 - 2002 Mathematics course to 2nd and 3rd year students at EPITA.

1: Joseph Fourier University of Grenoble.

2: Acquisition, Representation and Transformations for Image Synthesis.

3: Jean Kuntzmann Laboratory.

4: National Polytechnic Institute of Grenoble.

5: School for Computer Science and Advanced Techniques.

6: EPITA's Research and Development Laboratory.

7: National School of Telecommunications.

WORK HISTORY

- 2004 Development of a sketch-based garment design system, in the EVASION⁸ team of the GRAVIR laboratory, in collaboration with Professor John F. Hughes from Brown University.
- 2003 Development of a procedural expressive rendering system, in the ARTIS team of the GRAVIR laboratory, in collaboration with Professor Frédo Durand from MIT.
- 2001 Development of a 3D game in Java for the BlueQuarks company.
- 2000 Web design for a B2B website.
- 1997 - 1999 Technical advisor for a computer supplier.

TECHNICAL KNOWLEDGE

Skills	Computer graphics, image processing, computer vision, artificial intelligence, mathematics, system administration, web design and development
Operating Systems	Windows 95/98/NT/2000/XP, UNIX (MacOSX, Linux)
Languages	C/C++, Java, (X)HTML, CSS, Javascript, PHP, SQL, Ocaml, Common Lisp, Perl, Python, Ruby
Libraries	STL, OpenGL, libQGLViewer, QT, GTK, SWIG, ANTLR
Development Tools	CVS, SVN, Perforce
Software	Microsoft Office, Open Office, LaTeX, 3D Studio Max, Maya, Blender, Adobe Photoshop & Illustrator, Gimp

LANGUAGES

French	Native.
English	Fluent.
German	Intermediate.

OTHER ACTIVITIES

Music	Violinist, member of the OSUG ⁹ . Amateur violin maker.
Graphics & Design	Visual communication for the OSUG's concerts. Direction of short movies in 3D.
Associations	Member of the OSUG's board. Former president of EpX, EPITA's Linux users group.
Cinema	Jury's member of two international film festivals: <i>Laon International Film Festival for Young People</i> and <i>Carrousel International du Film de Rimouski</i> .

⁸: Virtual environments for animation and image synthesis of natural objects.

⁹: Symphonic Orchestra of Grenoble.