



David Roger

R&D Engineer

French Citizenship
Date of Birth: 5/29/1981
First child expected in February

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Education

- 2008 Ph.D in Computer Graphics at INRIA (Grenoble University)
- 2004 Master's degree in Computer Graphics at INP Grenoble, with honors
- 2001 Admission at *École Normale Supérieure de Lyon*
- 1998-2001 *Classes préparatoires* in Orléans
- 1998 *Baccalauréat Série S*, with Honors

Professional Experience

- 2004-2008 Ph.D. in ARTIS team at INRIA: research and teaching
- 2006 Six months research internship at Chalmers University of Technology (Göteborg, Sweden)
- 2004 Six months research internship at INRIA Rhône-Alpes (Grenoble)
- 2003 Three months research internship at University of British Columbia (Vancouver, Canada)
- 2002 Three months research internship at University of Clermont-Ferrand

International Research Publications

- 2007 [Whitted Ray Tracing using a Ray-Space hierarchy on the GPU](#)
David Roger, Ulf Assarsson, Nicolas Holzschuch
Rendering Techniques 2007 (Proceedings of EGSR)
- 2007 [Efficient Stream Reduction on the GPU](#)
David Roger, Ulf Assarsson, Nicolas Holzschuch
Workshop on GPGPU 2007
- 2006 [Accurate Specular Reflections in Real Time](#)
David Roger, Nicolas Holzschuch
Computer Graphics Forum (Proceedings of Eurographics 2006)

Teaching Activities

- 2005-2008 C programming course for first year students at UJF
- 2007-2008 Rendering course in Master at INPG
- 2007-2008 Mathematical games for highschool students

Knowledge

- Languages French: Native - English: Fluent - German: Notions
- Science Mathematics, Computer Science, Physics

Skills

- Rendering Ray tracing, radiosity, interactive rendering, GPU, parallel algorithms
- Communication Oral and written scientific presentations in English
Brochure design for a research team
- Evaluation Reviews for international publications
- Programming C/C++, Objective Caml and notions of Java, HTML
- Personnal Time management, project management
- Artistic Print aesthetics, 3D modeling, picture edition
- Edition LaTeX, edition software (Scribus)

Other Activities

- Associations Head of *Maths à Modeler* project for CIES in 2007:
Mathematical games in highschool
- Events Member of the organizing team of the Eurographics Symposium on Rendering 2007
- Graphics Direction of short movies in 3D
- Sport Judo: black belt and teaching experience, ski
- Music Clarinet degree, various orchestrae and groups,
Enfants du Jazz international festival in 1997