

# Nassim JIBAI

## Doctorate in Computer Science

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### Skills

- Strong parallel programming skills (GPU-CUDA, MPI)
- Strong compiler knowledge
- Proficient in C/C++, Java, OpenGL
- Comfortable under Linux, Windows, and Mac
- Good in problem-solving, analytical, and quantitative
- Fluent in English and French
- Excellent presentation skills
- Ambitious and Quick learner
- Multi-cultural background

### Experience

- 2009 - present  
(3 years)      **Research assistant** — *INRIA Rhone-Alpes, France*
  - Smoothing tomographic data at multi-scale level using anisotropic diffusion based on a 3D continuous histogram (implemented on **GPU** using **Cuda** and **C/C++**)
  - Geometric simplification (using **C/C++**)
- 2007 - 2008  
(9 months)      **Java programmer** — *Comp. Comm. & Technology, Lebanon*
  - Creating Geometric models
  - Maintaining a construction software
  - Helped design a parser analysis for a language using LEX and YACC
- 2007 - 2008  
(4 months)      **Instructor in Java** — *American University of Beirut, Lebanon*
  - Teaching "Introduction to Programming"
- 2006 - 2007  
(10 months)      **Research assistant** — *Ecole Nationale des Ponts et chaussées, France*
  - Research in special effect, image processing, and GPU (using **C/C++**)
- 2005 - 2007  
(2 years)      **System adm. & management** — *American University of Beirut, Lebanon*
  - Managing, maintaining, and updating a 9 node IBM pseries 690 6C4 cluster (**HPC**)
  - Consulting user on the use on the IBM cluster and documenting activity on the cluster
- 2003 - 2006  
(3 years)      **Research assistant** — *American University of Beirut, Lebanon*
  - Research in parallel programming (**HPC**, **MPI** "Message Passing Interface", **PVM**, **PARMETIS**)
  - Designed and wrote a parallel software to accelerate the implementation and computation of recursive subdivision surfaces (using **C/C++**, **MPI**, **PARMETIS**, **METIS**)
- 2002 - 2004  
(2 years)      **Graduate assistant** — *American University of Beirut, Lebanon*
  - Designed and implemented a compiler for mini C language (using **C**)
  - Teacher assistant to an advanced compiler course (using **C**)
  - Java instructor and teaching assistant (using **Java**)
  - Supervised undergraduate and masters students

### Education

- 2009 - 2012      **PhD Candidate in Computer Science**, Grenoble Universities, INRIA, France  
**Fast noise filtering of images (2D & 3D) and meshes preserving details.**  
with Prof. Nicolas Holzschuch and Dr. Cyril Soler (Work submitted to **TVCG 2011**)  
*to be defended in April 2012*
- 2003 - 2006      **Masters in Computer Science**, American University of Beirut, Lebanon  
**A library for implementing and using sequential and distributed recursive subdivision surfaces**, with Prof. Walid Keirouz
- 2000 - 2002      **Bachelor degree in Computer Science**, American University of Beirut, Lebanon

### International Publications

- **Multi-scale Feature-Preserving Smoothing of Tomographic Data**  
N. Jibai et al. **Poster at Siggraph 2011**
- **A Topological Abstraction for Implementing Recursive Subdivision Surface Computations**  
W. Keirouz, N. Jibai, G. Turkiyyah, A. Nasri, and E. Choueiri  
in Proceedings of Computer-Aided Design & Applications, 2006.

### Centers of Interest

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|---------------------|---|
| Activities & sports | hiking, swimming  |
| Theater             | perform in plays, e.g. "Une petite entaille" and "The Cats of Renee Dick" |
| Literature          | poetry (writing and reading)  |

### Awards & Positions

- 2010 - present      **Member of the "Laboratoire Jean Kuntzman" council** (represent PhD Students)
- 2002, 2001 & 2000      **Selected to Dean's Honor List**, American University of Beirut
- 1997      **Awarded Student of Year**, Lebanese American High School