Curriculum Vitae

Cécile Picard-Limpens

Personal Details

Gender: Female
Date of birth: 4th of April, 1981
Present Citizenship: French
Address: 78, boulevard Delfino - 06300 Nice, France
Phone: +33 (0)6 31 56 31 46
Email: `ccl.picard@gmail.com`
Homepage: `www-sop.inria.fr/members/Cecile.Picard/`

Work Experience

09 - 12/2010	**Design and development of didactic computer science interactive beads** Fuscia[1] and INRIA Sophia-Antipolis.
01 - 07/2010	**AudioGarden**[2] Project in collaboration with C. Frisson (UCL/TELE, Belgique) and numediart[3] STSM Grant from the Sonic Interaction Design COST Action[4].
2007 - 2010	**Doctoral Researcher in Computer Science** INRIA, REVES and EVASION Teams. Expressive Sound Synthesis for Animation. Supervisors : Prof. Dr. George Drettakis and Prof. Dr. François Faure
06 - 07/2009	**Visiting Ph.D. Student** McGill University - SOCS, Montréal, Canada. Modal analysis for sound synthesis. Collaboration with Paul G. Kry.
04 - 09/2009	**Supervision of an Engineering Student from Polytech'Grenoble** Integration of research results in the video game pipeline of Eden Games[5], an *ATARI* Game Studio in Lyon, France.
07 - 12/2006	**Research Internship** Chalmers University of Technology - Applied Acoustics, Göteborg - Sweden Audio-visual optimization of room acoustics for trusting communication. Supervisor: Prof. Dr. Pontus Larsson
02/2005 - 07/2005	**Private Teacher** Maths, Physics and Chemistry for high school students.
09/2004 - 02/2005	**Engineering Project** CEA - Atomic Research Center in Saclay, France Study of the behavior of nuclear reactors' core in case of seismic phenomenon.
03 - 07/2004	**Volunteer Work** Emmaüs Association in Italy, Holland and Belgium.

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[1] `http://fuscia.info/fr/index.php`
[2] `http://blog.audiogarden.org/pages/about`
[3] `http://www.numediart.org/`
[4] `http://www.cost-sid.org/`
[5] `http://www.eden-games.com/`

Education

2007 - 2010	**Ph.D. Computer Science** Université de Polytech'Nice-Sophia - INRIA, Sophia-Antipolis, France Grant CREA06 funded by the Conseil Général des Alpes Maritimes.
2005 - 2007	**M.Sc. Sound and Vibration** Chalmers University of Technology, Göteborg - Sweden Scholarship Egide Lavoisier funded by the Ministry of Foreign Affairs in France
2001 - 2005	**Mechanical Engineering** - Acoustics and Industrial Vibrations Université de Technologie de Compiègne (UTC), France
09/2002 - 02/2003	**Mechanical Engineering** - **Erasmus Program** Politecnico di Milano, Italy
1999 - 2001	**B.Sc. Physics and Engineering** French Preparatory Classes to Top Schools (CPGE), France

Technical Skills

Expertise	Sound Modeling
Knowledge	Numerical analysis, signal processing, physics-based modeling, contact modeling, finite elements methods, modal analysis.
Programming	Matlab and C++ Basic Knowledge in Processing 1.0, Pure Data, HTML, OpenGL Basic Knowledge in Blender, Abaqus and Solidworks
Language	French (native); Italian (fluent); English (fluent - M.Sc. in English) German (basic).

Miscellaneous

New Media Projects Collaboration with Freddy Limpens: `http://www.pl-area.net/`

Photography	Shooting, manual development and printing (black & white, colors) Exhibitions
Music	10 years of conservatory music education degree in musical theory and in classical guitar

PUBLICATIONS

[1] **Cécile Picard**, C.Frisson, F. Faure, G. Drettakis, and P. G. Kry. "Advances in Modal Analysis using a Robust and Multi-Scale Method", in *EURASIP Journal on Advances in Signal Processing - Special issue on Digital Audio Effects*, 2010. Submitted.

[2] **Cécile Picard**, C.Frisson, D.Tardieu, T.Dutoit. "Towards User-friendly Sound Creation", in *Proceedings of Audio Mostly, an ACM Conference on interaction with sound*, September 2010. To appear.

[3] L. Reboussière, C. frisson, O. Lahdeoja, J. A. Mills, **Cécile Picard**, T.Todoroff. "Multimodal Guitar: A Toolbox For Augmented Guitar Performances", in *Proceedings of New Interfaces for Musical Expression, NIME'10*, Sidney, Australia, June 2010.

[4] **Cécile Picard**, F. Faure, G. Drettakis, and P. G. Kry. "A Robust and Multi-Scale Modal Analysis for Sound Synthesis", in *Proceedings of DAFx09 International Conference on Digital Audio Effects*, Como, Italy, September 2009.

[5] **Cécile Picard**, N. Tsingos, and F. Faure. "Retargetting Example Sounds to Interactive Physics-Driven Animations", in *AES 35th International Conference - Audio for Games*, London, UK, February 2009.

[6] **Cécile Picard**, N. Tsingos, and F. Faure. "Audio Texture Synthesis for Complex Contact Interactions", in *VRIPHYS 08*, Grenoble, France, November 2008.