

Alexandre Chapiro

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EDUCATION

PhD in Computer Science (Starting Oct/2011)

Swiss Federal Institute of Technology Zurich [ETHZ]
Advisor: Prof. Markus Gross

MSC IN MATHEMATICS - MAJOR COMPUTER GRAPHICS 2011

Instituto Nacional de Matemática Pura e Aplicada [IMPA] in Rio de Janeiro
Advisor: Prof. Paulo Cezar Pinto Carvalho
Co-Advisor: Prof. Luiz Velho

BSC IN MATHEMATICS 2009

Universidade Federal de Juiz de Fora [UFJF] in Juiz de Fora, **first in class.**

RESEARCH EXPERIENCE

Member of the **Visgraf** laboratory, IMPA, since Jan/2010.

Member of the **GCG** laboratory, UFJF, since Aug/2007.

PUBLICATIONS

Available online at www.impa.br/~achapiro/research

Publications:

Chapiro, A. ; Castro, T.K. ; Mota, V. F. ; Perez, E. A. ; Vieira, M. B. ; Freire, W. P., **Discrete Wavelets on Edges**, InTech – Online publisher.
Book chapter available online. (Book chapter)

Castro, T.K. ; Chapiro, A. ; Cicconet, M. ; Velho, L., **Towards Mobile HDR Video**, to appear at Eurographics, 2011. (Extended Abstract)

Castro, T.K. ; Perez, E. A. ; Mota, V. F. ; Chapiro, A. ; Vieira, M. B. ; Freire, W. P., **High Frequency Assessment from Multiresolution Analysis**, ICCS - International Conference on Computational Science, 2009.

Mota, V.F.; Perez, E.A.; Castro, T.K.; Chapiro, A.; Vieira, M.B. **Detection of High Frequency Regions in Multiresolution**, ICIP - International Conference on Image Processing, 2009.

Posters:

Chapiro, A. ; Cicconet, M. ; Velho, L., **Filter Based Deghosting for Exposure Fusion Video**, SIGGRAPH, 2011. *Student Research Competition Semi-Finalist.*

Castro, T.K.; Chapiro, A. ; Cicconet, M. ; Velho, L., **Towards Mobile HDR Video**, ICCP, International Conference on Computational Photography 2011.

Chapiro, A.; Pereira, F.R. **The Mountain Pass Theorem**, EMED III – Minas Gerais Meeting in Differential Equations III, Itajuba, Brazil, 2009.

Theses:

Chapiro, A.; Advisor – Paulo Cezar Pinto Carvalho. Co-Advisor – Luiz Velho. **Improving Mobile Video**, IMPA Instituto Nacional de Matemática Pura e Aplicada, 2011. (Final M.Sc. Thesis)

Chapiro, A.; Advisor - Faria, L.F.O., **An Introduction to Degree Theory**, UFJF Universidade Federal de Juiz de Fora, 2009. (Final Undergraduate Thesis)

**TEACHING
EXPERIENCE**

Seminar Course 2008

Administered a series of seminars on Topological Degree Theory, along with Prof. Luiz F.O. Faria and Prof. Fábio R. Pereira, that led to a final undergraduate project.

SCHOLARSHIPS

Master program fellowship, CNPq, Mar/10-Jul/11,
Research fellowship for undergraduate students, FAPEMIG, Jan/09 – Dec/09,
Research fellowship for undergraduate students, CNPq, Jan/08 – Dec/08,
Research fellowships for winners of the OBMEP 2005/2006 mathematics olympics, CNPq, Mar/06 – Mar/07 and Mar/07 – Jan/08
Research fellowship for high-school students, CNPq, Jan/05 – Dec/05.
(CNPq is equivalent to NRC, FAPEMIG is state funding)

**ACADEMIC
HONORS**

Gold Medalist in OBMEP/2005 (Brazilian Mathematics Olympiad for Public School Students). 9th place among approximately 3.8 million students.
Gold Medalist in OBMEP/2006 (Brazilian Mathematics Olympiad for Public School Students). 95th place among approximately 5.3 million students.
Gold Medalist in OBA/2006 (Brazilian Astronomy Olympiad).

SKILLS

Focus on Results // Self-Motivation // Adaptability// Creativity // Teamwork

LANGUAGES

ENGLISH fluent
(TOEFL iBT 117/120, Cambridge FCE and CAE exams with A grades)
FRENCH advanced
Alliance Française DELF diplome (2005).
PORTUGUESE native language
Lived in Brazil for the vast majority of school/college/graduate studies.
SPANISH fluent
Lived 3 years in Spain.
RUSSIAN native language

**COMPUTER
EXPERIENCE**

C, C++, OpenGL, Matlab, Latex.

**INTERNATIONAL
EXPERIENCE**

2001-2002 lived in Zaragoza, Spain.
