

Ludovic Magerand

Seeking a position as a Postdoc in computer vision

Education

- December 2014 **PhD in computer vision**, *Université Blaise Pascal (Institut Blaise Pascal)*, Clermont-Ferrand.
Thesis title : "Dynamic pose estimation with CMOS camera using sequential acquisition". The goal of this work is to estimate an object pose and motion from a single rolling shutter image.
- June 2008 **Master's degree**, *Université Blaise Pascal*, Clermont-Ferrand.
Specialization in computer vision for robotics.
- July 2007 **Engineer degree**, *École des Mines d'Alès*, Alès.
École des Mines d'Alès is a french engineering school training engineers at a master level.
- 2006–2007 **Engineer student**, *Université de Sherbrooke*, Sherbrooke.
Specialization in computer sciences, this year was conducted as part of the student exchange program between France and the Quebec province.
- 2003–2007 **Engineer student**, *École des Mines d'Alès*, Alès et Nîmes.
The first three years are dedicated to general education and the last year to specialization.
- 2002–2003 **Preparatory class**, *Lycée Lafayette*, Clermont-Ferrand.
Prepare students to engineering school by studying mathematics, physics and chemistry.
- June 2002 **High school diploma (obtained with honors)**, *Lycée Lafayette*, Clermont-Ferrand.

Work experiences

- October 2017–... **Young Researcher**, *CVUT/CTU (CIIRC)*, Prague.
Research in camera autocalibration through minimal polynomial problems and projective Structure-from-Motion.
- March 2017 **Teaching fellow**, *ESIGELEC*, Rouen.
Teaching computer science to undergraduate and postgraduate students using pro-active pedagogy methods. Subjects : GUI in Java, database/JDBC and project management (Scrum).
- March 2015–Feb. 2017 **Postdoctoral Researcher**, *Istituto Italiano di Tecnologia (dep. PAVIS)*, Genova.
Research project on the perspective Structure-from-Motion problem with a factorization based approach allowing parallel computing.
- Oct. 2011–Sept. 2013 **Assistant Professor**, *Université d'Auvergne*, Le Puy-en-Velay.
Courses : "Algorithmic and PHP" (course, lab sessions and tutorials), "Web application security" (course, lab sessions and tutorials), "Databases and information system" (lab sessions and tutorials), "Network and system administration" (lab sessions), "Web tools : HTML and CSS" (lab sessions) and "Object-oriented programming" (lab sessions).
- Oct. 2008–Sept. 2011 **Teaching Assistant**, *Université Blaise Pascal*, Clermont-Ferrand.
Courses : "Algorithmic and C" (lab sessions and tutorials), "Graph theory" (lab sessions), "Web tools : HTML, CSS and JavaScript" (lab sessions) and "Artificial intelligence" (lab sessions).
- Feb.–June 2008 **Research Internship**, *Université Blaise Pascal (Institut Blaise Pascal)*, Clermont-Ferrand.
Working on an approximation of the perspective camera projection model by a piecewise affine camera model.
- Jan.–May 2007 **Final Project Study**, *Université de Sherbrooke*, Sherbrooke.
Working on a new cryptographic method designed specifically for images.

13 Allée Lavoisier – 63 800 Cournon d'Auvergne (France)

☎ +33 6 74 76 75 92 • ✉ ludovic@magerand.fr

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- June–August 2006 **Assistant Engineer Internship**, *SmartIO Systems*, Nîmes.
Integration of «GNU/Linux» inside a mobile device communication aid for the dumb.
- September 2004 **Tutor**, *École des Mines d'Alès*, Alès.
Organizer of a remedial course in computer science offered to new students at the school (École des Mines d'Alès is a french engineering school).

Professional skills

Programming	C/C++, OpenMP, Java, Python, MATLAB, CMake, Mercurial, Git, Docker
Op. Sys.	«GNU/Linux» (since 1998), Windows (since 1995), Android (since 2012)
Network	Ethernet, WLAN, PowerDNS, OpenVPN, OSPF, Snort/Nagios/Icinga
Web	PHP, html 5, CSS 3, Javascript, Ajax, JQuery, MySQL, Symfony, Lighttpd, Postfix
Multimedia	Gimp, Inkscape, Kino, Cinelerra, Lives, Audacity
Office	L ^A T _E X 2 _ε , TexStudio, OpenOffice.org/LibreOffice, Scribus
French	Mother tongue
English	Fluent <i>TOEIC at 885 in November 2005</i>

References

Alessio Del Bue, *Researcher at Italian Institute of Technology*,
alessio.delbue@iit.it.

Alessio is my supervisor in my current post-doctoral position.

Alexandre Guitton, *Associate Professor at Université Blaise Pascal*,
alexandre.guitton@univ-bpclermont.fr.

I did lab sessions and tutorials for a course that Alexandre was in charge.

Adrien Bartoli, *Professor at Université d'Auvergne*, adrien.bartoli@gmail.com.
Adrien was my doctoral adviser.

Miscellaneous

- 2006– ... Administration of my own domain name and dedicated server
- 2009– ... Volunteer first aid trainer at the french red-cross
- 2006– ... Volunteer rescuer at the french red-cross
- 2003–2007 Network and system administrator at École des Mines d'Alès
- January 2006 Driving license
- 2004–2005 Responsible of the climbing club at École des Mines d'Alès

Publications, *available at <https://magerand.fr>*

Ludovic Magerand and Alessio Del Bue. Practical Projective Structure from Motion (P2SfM). In *ICCV*, 2017.

Ludovic Magerand. Calcul de pose dynamique avec les caméras cmos utilisant une acquisition séquentielle. In *PhD Thesis*, December 2014.

Ludovic Magerand, Adrien Bartoli, Omar Ait-Aider, and Daniel Pizarro. Global Optimization of Object Pose and Motion from a Single Rolling Shutter Image with Automatic 2D-3D Matching. In *ECCV*, 2012.

Ludovic Magerand and Adrien Bartoli. A Generic Rolling Shutter Camera Model and its Application to Dynamic Pose Estimation. In *3DPVT*, 2010.

Ludovic Magerand, Adrien Bartoli, and Omar Ait-Aider. Un modèle de projection «rolling shutter» flexible appliqué au calcul de pose. In *Orasis*, 2009.

Ludovic Magerand, Adrien Bartoli, Michel Grédiac, and Jean-Marc Thiesse. Détermination de la matrice de rigidité d'un matériau en petites déformations planes à partir du flot optique. In *Coresa*, 2009.