

## Arthur COSTE

**Permanent address :** 27, Rue de la Résistance, 42000 Saint Etienne, FRANCE

**Email address :** coste.arthur@gmail.com

**Phone numbers :** +33 (0)4 77 21 38 17, +33 (0)7 81 99 80 09

### Objective

**PhD position in Medical Imaging**

---

### Education

**School of Computing, University of Utah, 2012-2013**

Last Year of M.Sc, **4.0 GPA**

- **Majors:** Image Processing, Scientific Visualization, Computer Vision, Applied Mathematics and Statistics
- **With:** Research and processing in Medical Imaging (DTI). C++, tclsh, and other programming languages.

**ESCPE Lyon, Engineering School, University of Lyon 2009-2011**

Department of Electronics, Computer Science and Telecommunications

**Bachelor of Engineering acquired in 2010.**

Graduation expected in 2013/2014 at MSc level

- **Majors:** Programming in C/C++/Matlab, databases, operating system, networks and protocols, image processing, embedded systems, microprocessor systems
- **With:** Mathematics, physics, analog and digital electronics, electrical engineering, analog and digital signal processing, random signals, and linear systems.
- **And:** English, Spanish, economy and management
- **Specialization:** Digital filtering, Mathematical tools and modelling, Optimization techniques, Image synthesis

**Lycée des Chartreux, Lyon, 'Classes Préparatoires', MPSI/PSI 2007-2009**

2 years full-time higher education in preparation for competitive entry to ESCPE Lyon (French high-level schools of Science and Engineering : "Grandes Ecoles")

- **Majors:** Mathematics, Physics, Chemistry and Engineering
- **With:** Introduction to Computer Science , English and Spanish

**High School, Lycée Saint-Paul, Saint-Étienne, 2007**

Scientific baccalaureate, specialized in Physics, and European Baccalaureate (Euro), French high school leaving diploma specialized in Science

**Graduated with honors**

---

### Experience

**Research and Development Intern, BioClinica SAS 2013**

Lyon, FRANCE

- Development of Cortical Thickness Measurement Framework
- Tissue Segmentation using Mutli-Atlas Framework
- Extensive programming in Python, C++ with ITK and VTK

**Research Assistant, Scientific Computing and Imaging Institute 2011-2013**

University of Utah, Salt Lake City, Utah, United States of America

- Extensive programming in tssh to process large scale dataset
- Program image processing software in C/C++ with ITK library.
- Develop Quality Control pipelines on large datasets with web based visualization
- Applied Mathematics and Physics to work on Diffusion Tensor Imaging.

**IT intern**, Crédit-Agricole, Saint-Étienne, France **July 2010**  
 Data seizure for hardware, managing Intranet structure and Software Management.

---

**Leadership Activities** **Chief Financial Officer, Project Manager**, Electreecity **2009-2010**  
 Company creation project along with 6 other students of CPE Lyon school and University of Lyon within the framework of the competition 'Campus creation 2010'

---

**Awards** **Dean's List Designation**, School Of Computing, University of Utah : **4.0 GPA**  
**First Prize**, "Grand Prix Campus Création 2010" : Electreecity  
 Our team won the first prize of the contest with an ecologically friendly electric plug. The plug is protected by a Soleau envelope at INPI.

**Computer Skills** **Languages:** C, C++, Linux Shell, tssh, Python, Qt, OpenCv, OpenGL, HTML, SQL, Cmake, Git, Mercurial, Matlab, ITK, VTK.  
**Software:** Proficient with Microsoft office/Open Office, Matlab, Managing websites, Data Base Administration, Blender,  $\LaTeX$ .  
**Environment:** Windows NT, Linux Ubuntu and OpenSuse, Mac OS X.

---

**Languages** **French:** Native Speaker  
**English:** Full Professional proficiency (Cambridge First Certificate of English 2007, TOIC in 2009 (870), TOEFL iBT 109/120 (March 2012))  
**Spanish:** Working proficiency

---

**Extra-Curricular Activities** **Interests:** Science, Photography, Music, Reading, Origami, Lego, Do It Yourself, Hiking, Ultimate Frisbee.  
**2009-2010:** Member of CPE Lyon Robotic Association  
**2006-2007:** Actor and singer in a musical made with other students.

---

**References** **Joël Schaerer PhD:** Research supervisor at BioClinica  
 Joel.Schaerer@bioclinica.com  
**Guido Gerig PhD:** Mentor at the Scientific Computing and Imaging Institute  
 gerig@sci.utah.edu  
**Jean Marie Becker PhD:** Mentor at CPE Lyon  
 becker@cpe.fr