Guillaume THIBAULT Ph.D

Research Assistant Professor

2002 SW Vermont St, Portland, OR 97219, USA

Email: guillaume@thibault.biz, Website: www.thibault.biz, Phone: +1 (971) 303-7591

Summary

Ph.D degree in Image Processing and Pattern Recognition from Aix-Marseille II University, France, with 13-year experience in Computer Vision / Machine Learning and Software Engineering in universities. Strong background in Computer Science and Programming. Skilled at presenting theoretical and technical concepts.

Skills

Scientific	Computer Vision, Machine/Deep Learning (Classification and Clustering). Strong knowledge in Mathematics and Computer Science, background in Physics.
Programming	**Languages** *Languages*: Java, Python, C/C++. *Libraries*: Keras, PyTorch, Weka, JSAT, ImageJ.
Languages	**English** fluent (work in the US since 2013), **French** native.

Experience

01/2013–Now   **OHSU Center for Spatial Systems Biomedicine (OCSSB), BME**   Portland, OR
- *Computer Vision / Machine Learning / Deep Learning / Computer Aided Diagnosis Researcher*.
- Developing algorithms to segment, analyze and classify H&E images (Java, Python, Keras).
- Segmentation and quantification of immunofluorescence images (Java, C++).
- MRI analysis for early chemotherapy outcome prediction.
- Registration, denoising and segmentation of electron microscopy images (PyTorch).
- Teaching, DAC committees member, Ph.D and Master dissertation advisor.

10/2009–09/2012   **Center for Mathematical Morphology (CMM), Mines-ParisTech**   Fontainebleau, France
- *Post Doctoral Researcher* in pattern recognition.
- Using texture characterization and machine learning for mitosis classification (Java, Python, JMP).
- Blood vessel detection for TeleOphta telemedicine network.
- Xiwei Zhang Ph.D advisor in image processing and machine learning.

10/2005–09/2009   **Laboratoire des Sciences de l'Information et des Systèmes (LSIS), Aix-Marseille II University**   Marseille, France
- *Ph.D student* in image processing, machine learning, and pattern recognition.
- Characterization and classification of cells from patients with Progeria (C, Java, Weka, JMP).
- Teaching: C, Maple, mathematics, image processing, mathematical morphology, pattern recognition.

1997–2012   **SDIS 13**   Aubagne, France
- *Volunteer Firefighter and Paramedic*.

2007   **SDIS 13**   Aubagne, France
- *Lead software engineer* in database (Access, Merise).
- Implemented a complete database to manage the forest fire prevention resources for the SDIS 13 firefighters.

2003   **CarMask**   Marseille, France
- *Software engineer* in automation (Visual basic).
- Controller implementation with algorithmic optimization for paper cutting in automotive industry.

Education

2009   **Ph.D degree, Luminy, Aix-Marseille II University**   Marseille, France
Image Processing, Shape and Texture Characterization, and Machine Learning

2005   **Masters of Science, Aix-Marseille University**   Marseille, France
Numerical Imaging, Signal Processing, Information Processing and Modeling.

2003   **Bachelor degree**   Marseille, France
Majoring in Mathematics, Computer Science, and Physics.