

Guillaume THIBAUT Ph.D

Research Assistant Professor

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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.

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.
- 10/2009–09/2012 **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 **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.

Skills

- Programming **Languages**
Languages: Java, Python, C/C++.
Libraries: Keras, Tensorflow, Weka, ImageJ.
- Scientific Machine Learning (CNN, Clustering, Random Forests), Computer Vision.
Background in Mathematics and Physics.
- Languages **English** fluent (work in the US since 2013), **French** native.