Guillaume THIBAULT – Research Engineer
Machine Learning – Computer Vision – Research & Development
Phone: 971-303-7591
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SUMMARY

- Experience in Biomedical and Medical image analysis
- Experience in Machine Learning (deep learning, classification, clustering)
- Experience in Computer Vision (registration, segmentation, features extraction)
- Experience in Leading Research
- Experience in Software Development
- Experience working on small and large projects
- Experience in writing reports and presentations

SKILLS

- Computer Vision
- Machine Learning
- Deep Learning: Keras, PyTorch
- Software Development
- Languages: JAVA, Python, C/C++
- Research
- Native French speaker

PROFESSIONAL EXPERIENCES

OHSU / BME / OCSSB – 2013 to present
Research Assistant Professor
- Lead research in computer vision applied to medical and biomedical images
- Automatic segmentation of H&E images (cells and structures of interest)
- Automatic segmentation and features extraction of cyclic immunofluorescence images
- Registration, denoising, and segmentation of electron microscopy images
- Tumor characterization in MRI images.
- Teaching, DAC committee member, Ph.D. and Master dissertation advisor

Ecole des Mines de Paris, Mines-ParisTech / CMM – 2009 to 2012
Senior Research Engineer / Post-Doctoral fellow
- Automatic diabetic retinopathy detection in eye fundus images
- Eye fundus images main structures detection
- Automatic cells/nuclei segmentation and characterization in immunofluorescence images for mitosis analysis
- New statistical texture characterization methods development
- 3D dermis images characterization for automatic patient age classification
- Pneumatic tire cuts images segmentation for rubber distribution
- Ph.D. student supervisor
- Project co-coordinator

C4M – 2010
Computer vision consultant
- Feasibility, specifications and modeling

- Object, skin and faces detection and tracking.

Aix-Marseille University / LSIS – 2005 to 2009

Ph.D. student in computer science specialized in computer vision
- Nuclei shape and texture characterization and classification
- New statistical texture characterization methods development
- Data analysis

Bouches du Rhônes firefighters – 2007

Project management and database development
- Database conception and modeling (access)
- Integration and validation

LogiMask and Filétude – 2003

Visual Basic software development engineer
- Conception and modeling
- Algorithmic and optimization
- Automation

Bouches du Rhônes firefighters – 1997 to 2013

Volunteer firefighter and paramedic

EDUCATION

2009: Ph.D. in Computer Science and Vision - Aix-Marseille University - France
  Major topics: computer science, image processing, machine learning, programming
2005: Master degree in Computer Science and Vision - Aix-Marseille University – France
  Major topics: numerical analysis, probability, statistic, computer sciences
2003: Bachelor in Mathematics and Computer Science - Aix-Marseille University – France

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REFERENCES

On Demand.