

Fabien Baradel

Ph.D. Candidate, INSA-Lyon
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Research Interests

Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning

Education

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|---|------------------|----------------------------|
| INSA-Lyon | Lyon, France | October 2016 - Present |
| Ph.D., Computer Science | | |
| – Thesis: <i>Deep Learning for Human Understanding: poses, gestures, activities</i> | | |
| – Supervisors: Christian Wolf - Julien Mille | | |
| ENSAI | Rennes, France | September 2013 - June 2016 |
| M.Sc, Statistics & Computer Science | | |
| – Suma Cum Laude (top of class) - High Honors | | |
| – "Diplôme d'ingénieur" from the National School of Statistics and Data Analysis | | |
| – Top French engineering school in Data Science | | |
| University of Warwick | Conventry, UK | January 2015 - June 2015 |
| M.Sc, Statistics | | |
| – Erasmus Mundus semester exchange | | |
| University of Paris Dauphine | Paris, France | January 2015 - June 2015 |
| B.Sc, Applied Economics | | |
| – Double agreement with ENSAI | | |
| University of Grenoble Alps | Grenoble, France | September 2010 - June 2013 |
| B.Sc, Applied Mathematics | | |
| – Suma Cum Laude (top of class) - High Honors | | |

Work Experience

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|---|------------------|-----------------------------|
| LIRIS | Lyon, France | October 2016 - Present |
| Graduate Research Assistant | | |
| – <i>Lyon computer science lab</i> | | |
| – Research on computer vision and machine learning with a focus on human activity recognition, multi-modality fusion, video understanding | | |
| – Involved in robotic projects | | |
| – Advisor: Christian Wolf | | |
| XRCE | Grenoble, France | March 2016 - September 2016 |
| Research Intern | | |
| – <i>Xerox Research Centre Europe</i> | | |
| – Subject: <i>Unsupervised domain adaptation for image recognition</i> | | |
| – Two papers under review & one U.S. Patent accepted | | |
| – Advisors: Boris Chidlovski - Gabriela Csurka | | |

LICIT - IFSTTAR

Lyon, France

June 2015 - August 2015

Research Intern

- Subject: *Machine Learning for road traffic forecasting*
- Advisor: Romain Billot

Publications

1. Fabien Baradel, Christian Wolf, Julien Mille. "Pose-conditioned Spatio-Temporal Attention for Human Action Recognition" *In submission to ICCV, to appear on arXiv*. 2017.
 - State-of-the-art results on NTU RGB+D dataset (largest dataset for human action recognition)
 - Transfer Learning on tiny datasets (state-of-the-art results on SBU Kinect Interaction dataset)
2. One paper under review at ICCV. 2017.
3. One paper under review at IJCAI. 2017.

Teaching Experience

ENSAI

Rennes, France

January 2017

Teaching Assistant

- Seminars: *Introduction to Deep Learning with Tensorflow*

Awards and Honors

ANR/NSERC Ph.D. Fellowship - DeepVision project
Erasmus Mundus exchange program scholarship

Computer Skills

Python, Java, C, C++, SQL, PHP, R, SAS
Tensorflow, Torch, L^AT_EX, Linux, Mac, HTML, CSS