

Fabien Baradel

Ph.D. Candidate, INSA-Lyon
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Research Interests

Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning

Education

INSA-Lyon Lyon, France October 2016 - Present
Ph.D., Computer Science
– Thesis: *Deep Learning for Human Understanding: poses, gestures, activities*
– 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 Coventry, 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

University of Guelph Guelph, Canada July 2017 - August 2017
Visiting researcher
– *Machine Learning Research Group*
– Collaboration from the DeepVision project
– Advisor: Graham Taylor

LIRIS Lyon, France October 2016 - Present
Graduate Research Assistant
– *Lyon computer science lab*
– 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

- *Xerox Research Centre Europe*
- Subject: *Unsupervised domain adaptation for image recognition*
- One paper 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. "Human Action Recognition: Pose-based Attention draws focus to Hands" *ICCV Workshop "Hands in Action"*. 2017.
2. Gabriela Csurka, Fabien Baradel, Boris Chidlovskii, Stéphane Clinchant. "Discrepancy-based networks for unsupervised domain adaptation: a comparative study" *ICCV Workshop "Task-CV"*. 2017.
3. Fabien Baradel, Christian Wolf, Julien Mille. "Pose-conditioned Spatio-Temporal Attention for Human Action Recognition" *under review, arXiv pre-print*. 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, pyTorch, L^AT_EX, Linux, Mac, HTML, CSS