## Fabien Baradel

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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 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

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. "Pose-conditioned Spatio-Temporal Attention for Human Action Recognition" under review, arXiv pre-print. 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)

# 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, LATEX, Linux, Mac, HTML, CSS