

Tiffany Tuor

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EDUCATION

- Dec 2016 – Present** **Imperial College London, London, United Kingdom**
Doctor of Philosophy (PhD) in Electrical and Electronic Engineering
- Research interests: distributed machine learning, communication networks, edge computing
 - Advisor: Professor Kin Leung
 - Award of scholarship from the U.S./U.K. International Technology Alliance (ITA) project
- Oct 2015 – Oct 2016** **Imperial College London, London, United Kingdom**
Master of Science (MSc) in Communication and Signal Processing (with Merit)
- Modules included: Machine learning for Computer Vision, Information Theory, Probability and Stochastic Processes, Advanced communication Theory, Traffic Theory & Queuing Systems, Digital Signal Processing and Digital Filters
 - Thesis title: 6 Degrees of Freedom (DoF) Object Pose Estimation using RGB-D Images
- Oct 2014 – Oct 2015** **Imperial College Business School, London, United Kingdom**
Master of Science (MSc) in Financial Engineering
- Modules included: Advanced statistics, Stochastic Calculus, C++ for Finance
 - Project: Pattern Recognition and Prediction in Equity Market using signal processing and machine learning techniques
- Sep 2010 – June 2014** **Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland**
Bachelor of Science (BSc) in Communication Systems (Grade: 78%)
- Modules included: Computer Networks, Network security, Algorithms, Introduction to optimization and operations research, Object Oriented Programming
 - Project: Implementation of a Bittorrent Client with RSA encryption in Java

RESEARCH & WORK EXPERIENCE

- May 2017- Aug 2017** **IBM Thomas J. Watson Research Center, New York, USA**
Intern in the distributed cognitive system group
- Worked on developing edge machine learning algorithms
 - Developed an algorithm with the ability to train machine learning models from data distributed at multiple nodes - without sending the raw data to a central place - in an optimal way for a given amount of resources
- Oct 2016 – Nov 2016** **Teralytics Pte. Ltd., Singapore**
Data Scientist Intern
- Analysed the commuter traffic in the Singapore tube stations using mobile data by applying stochastic modelling techniques
 - Build visualization tools for the indoor cells identification in the tube stations
- May 2016 – Sep 2016** **Imperial College Vision & Learning Lab, London, United Kingdom**
Master Research Student
- Comparative study of two state-of-the-art methods that perform 6DoF object pose estimation using RGB-D images
 - Construction of a new, highly occluded, RGB-D dataset fully annotated and evaluation of the two approaches using the new dataset as a common denominator

- Sep 2011 – May 2012** **Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland**
Teaching assistant for undergraduate students in the course “Information Sciences”
- Delivered tutorial class and responsible for grading weekly assignments
 - Content of the course: Shannon’s entropy, Linear codes, Reed-Solomon codes, Number theory, Asymmetric Cryptography RSA
- May 2011 – Jul 2011** **International Telecommunications Union (ITU), Geneva, Switzerland**
Intern in the Terrestrial Applications Software Division (TAS)
- Contributed to the design and implementation of a database allowing the modelling of the inter-relationships between the various software modules developed by TAS
 - Responsible for populating the database tables with the data collected from the developers in the team and building a comprehensive high level overview about the software developed by TAS

VOLUNTEERING EXPERIENCE

- Nov 2015 – Jun 2016** **Code Club, London, London, United Kingdom**
Part-Time Volunteer
- Taught children how to create animations, games and website
- Oct 2011 – May 2013** **International Committee of the Red Cross (ICRC), Geneva, Switzerland**
Part- Time Volunteer
- Involved in an integration project for asylum-seeking children and young adults
 - Taught the young adults to write French and basic arithmetic

IT SKILLS

Python, Java, C++, Scala, MATLAB / Linux

LANGUAGES

French: Native language / Italian: Fluent / English: Fluent (IELTS 7.5) / German: Basic

PUBLICATION

- S. Wang, T. Tuor, T. Salonidis, K. K. Leung, C. Makaya, T. He, and K. Chan, "When edge meets learning: adaptive control for resource-constrained distributed machine learning," to be presented at *IEEE INFOCOM*, Apr. 2018. (acceptance rate: 19.2%)
- Tiffany Tuor, Shiqiang Wang, Theodoros Salonidis, Bong Jun Ko, Kin K. Leung “ Distributed Machine Learning at Resource-Limited Edge Node: Demo”, to be presented at INFOCOM 2018

CAMPUS ACTIVITIES

Imperial College London, London, United Kingdom

- Member of EEE Opportunities Committee and class representative for Communication and Signal Processing MSc students

Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

- Council member of the Communication Systems faculty
- Member of Girls Coding (<http://girlscoding.org>)

INTERESTS Semi-marathon, running, ski

References available upon request