Antoine **Loriette**

RESEARCHER IN MACHINE LEARNING APPLIED TO HUMAN AND COMPUTER INTERACTION

3 rue de la Croix Faubin, 75011 Paris

(+33) 7-66-73-95-93 | ✉ antoine.loriette@gmail.com | ⬡ toinsson | in antoineloriette

Research

Inria
Saclay, France

POST-DOCTORAL RESEARCHER — *Jan. 2020 - Mar. 2020*

- Member of the team Ex)Situ which explores the limits of human-computer interaction, specifically how extreme users interact with technology in extreme situations.
- Research with Dr. Caramiaux on problems related to the measure of motor learning in task involving complex and creative motions, such as dance or music practise.

University of Glasgow
Glasgow, United Kingdom

RESEARCH AND TEACHING ASSESSMENT ASSISTANT — *Mar. 2019 - Sep. 2019*

- Research with Pr. Chalmers on visualisation techniques for low-dimensional embeddings with a focus on bridging t-SNE and force-based approaches. Production of Jupyter notebooks gathering the Python implementation of proposed algorithms and results of experiments on Mnist-Fashion.
- Assessment of undergraduate projects and tutoring courses. Correction of examination essays.

University of Glasgow
Glasgow, United Kingdom

PHD CANDIDATE AND CONTRIBUTOR TO THE EUROPEAN PROJECT MOREGRASP — *Mar. 2015 - Feb. 2019*

- Member of the Inference, Dynamics and Interaction (IDI) group led by Pr. Murray-Smith.
- Research involving computational methods for the study of novel gestural interactions: use of discriminative models to create virtual surfaces from RGB-D sensors, optimisation of gameplay experiences for custom game controllers via user probabilistic modelling, audio-based reinforcement learning for the exploration and characterisation of user physical capabilities. Partly published at ISS'17.
- Contributions to the European project MoreGrasp: lead redaction of deliverable documents, implementation of visual feedback mechanisms on smartwatches, preparation of live demos and posters for review meetings, establishment of contacts with practitioners in the QEU hospital in Glasgow leading to workshops in-situ and the writing of a funding proposal targeting a local charity.
- Tutoring for Artificial Intelligence and Data Fundamentals courses (undergraduate, Master levels).

Mobile Vinn Excellence Center (Mobile Life)
Stockholm, Sweden

RESEARCH ASSISTANT — *Feb. 2014 - Oct. 2014*

- Member of Pr. Brown's group dedicated to the understanding of human interactions with novel technology through the use of ethnographic methods.
- Research on innovative designs for always-on in the background speech interactions. Design of an experiment involving day-long recordings of participants' everyday life. Qualitative analysis and design workshop with trained Interaction designers. Published at CHI'15.

Industry

Now & Net
Paris, France

PARTNER — *2013 - 2015*

- Member of a startup, created in 2012, aiming at providing a collective musical experience organised around DJ-ing.
- Writing of research and development plans leading to the successful application to the status of young innovative company (JEI). Development of a proof-of-concept recom- mender system based on the technology Neo4j.

Ericsson AB
Stockholm, Sweden

MULTIPLE POSITIONS — *2008 - 2013*

- SCRUM master and Software Developer - 2013/2014: Acting as the "guardian of the process" to facilitate daily operations of a cross functional team (8 people). Animation of planning meetings, daily follow-up meetings and retrospective meetings.
- System engineer at AT&T laboratory - summer 2012: Integration of features into the customer network with laboratory and in-the-field experiments.
- Research engineer at Ericsson Research - 2012: Preparation of the 4G+ prototype for the Mobile World Congress (MWC).
- Software Developer at 4G/LTE - 2008/2011: Development in C of algorithms from standard specifications (3GPP). Extension and support of an Erlang test framework used by 50 engineers, including training sessions in Stockholm and Beijing.

Education

University of Glasgow
Glasgow, United Kingdom

PHD IN COMPUTING SCIENCE — *2019*

Thesis title: A Computational Approach to Gestural Interactions of the Upper Limb on Planar Surfaces.

KTH (Royal Institute of Technology) *Stockholm, Sweden*

MSc in Applied Physics *2009*

Telecom Physique Strasbourg *Illkirch-Graffenstaden, France*

MSc in Engineering and Physics *2008*