Si-Qi LIU | Curriculum Vitae

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Education

MSc in Computer Science, Keble College, University of Oxford, UK
Graduated with distinction. Supported by COSF B&J Lloyd Family Trust scholarship.   Oct.2015–Feb.2017

Diplôme d'Ingénieur (M.Eng), CentraleSupélec, France
Top French Grandes Ecole in Engineering, ranked 1st on Metz campus, GPA 3.9/4.0.   Jun.2013–Feb.2017

Licence II, Université de Technologie de Compiègne, France
Overall GPA 3.99/4.0, Supported by AMESON scholarship.   2011–2013

Experiences

Google DeepMind   **London**
Research Engineer   Mar.2017–Present
○ My research focused on the intersection of multi-agent, continuous control and deep reinforcement learning;
○ Built research infrastructure supporting large-scale experiments across DeepMind.

Google Research   **Mountain View**
Research Intern, Research & Machine Intelligence (Hosted by Kevin Murphy)   Jul.2016–Nov.2016
○ Our work (https://arxiv.org/abs/1612.00370) has been published with a spotlight talk at ICCV 2017;

Google   **New York**
Software Engineer Intern, Adwords-Optimisation   Jun.2015–Sep.2015
○ Built large-scale distributed evaluation pipeline for CTR/conversion rate prediction models.

Collabora, The Document Foundation
Consultant Software Engineer (part-time)   Feb.2015–May.2015

Google   **Zurich**
Software Engineer Intern, Search-Knowledge   Jun.2014–Sep.2014
○ Built models for entity resolution in search queries and web documents;
○ Work presented at the Google EMEA intern summit;

LibreOffice
Google Summer of Code contributor   Jul.2013–Jan.2014
○ Built LibreOffice Impress remote control for iOS, featured in LibreOffice 4.2 and LibreOffice developer conference;

Publications

Improved Image Captioning via Policy Gradient optimization of SPIDEr
Spotlight, ICCV 2017, International Conference on Computer Vision
Siqi Liu, Zhenhai Zhu, Ning Ye, Sergio Guadarrama, Kevin Murphy

Emergent Coordination Through Competition
Poster, ICLR 2019, International Conference on Learning Representations
Siqi Liu, Guy Lever, Josh Merel, Saran Tunyasuvunakool, Nicolas Heess, Thore Graepel

Hierarchical Visuomotor Control of Humanoids
Poster, ICLR 2019, International Conference on Learning Representations
Josh Merel, Arun Ahuja, Vu Pham, Saran Tunyasuvunakool, *Siqi Liu*, Dhruva Tirumala, Nicolas Heess, Greg Wayne

The Body is not a Given: Joint Agent Policy Learning and Morphology Evolution
Poster, AAMAS 2019, International Conference on Autonomous Agents and Multiagent Systems

Dylan Banarse, Yoram Bachrach, *Siqi Liu*, Chrisantha Fernando, Nicolas Heess, Pushmeet Kohli, Guy Lever, Thore Graepel

Observational Learning by Reinforcement Learning
Poster, AAMAS 2019, International Conference on Autonomous Agents and Multiagent Systems
Diana Borsa, Nicolas Heess, Bilal Piot, *Siqi Liu*, Leonard Hasenclever, Remi Munos, Olivier Pietquin

Reinforcement Learning Agents acquire Flocking and Symbiotic Behaviour in Simulated Ecosystems
Poster, ALIFE 2019, Artificial Life
Peter Sunehag, Guy Lever, *Siqi Liu*, Josh Merel, Nicolas Heess, Joel Z Leibo, Edward Hughes, Tom Eccles, Thore Graepel

A Generalized Training Approach for Multiagent Learning
Oral, ICLR 2020, International Conference on Learning Representations
Paul Muller, Shayegan Omidshafiei, Mark Rowland, Karl Tuyls, Julien Perolat, *Siqi Liu*, Daniel Hennes, Luke Marris, Marc Lanctot, Edward Hughes, Zhe Wang, Guy Lever, Nicolas Heess, Thore Graepel, Remi Munos

V-MPO: On-Policy Maximum a Posteriori Policy Optimization for Discrete and Continuous Control
Poster, ICLR 2020, International Conference on Learning Representations
H Francis Song, Abbas Abdolmaleki, Jost Tobias Springenberg, Aidan Clark, Hubert Soyer, Jack W Rae, Seb Noury, Arun Ahuja, *Siqi Liu*, Dhruva Tirumala, Nicolas Heess, Dan Belov, Martin Riedmiller, Matthew M Botvinick

Languages

French: Bilingual Proficiency (EU C2 Proficiency)   **English**: Bilingual Proficiency, TOEFL 115/120
Chinese: Native Speaker   **Japanese/German**: Elementary Proficiency

Student Associations

Rézo, CentraleSupélec
Vice-President   2013–2015
○ Provides web services and network infrastructure for students in Metz area;
○ Organised meet-ups around software engineering topics (git, ROS, Django, Python, Android/iOS);

UTCoupe, Université de Technologie de Compiègne
Vice-President   2012–2013
○ Participated in the French Robotics Cup, ranked 18th out of 144 teams;

ClubChine, Université de Technologie de Compiègne
Founder, President   2011–2012

Lumière d'Afrique, CentraleSupélec
Volunteer   2013–2014
○ Fund-raising for solar-powered lighting installation in schools and hospitals in Cameroon;

Other Projects

txt2calories: Nutrition Estimation via Natural Languages
Computational Linguistics Group, University of Oxford (supervised by Phil Blunsom)   Feb.2016–Jul.2016

Metabolise: Fitness Tracking with Nutrition Estimation from Text
3rd place at hackathon HackCambrdige, Cambridge, UK   Jan.2016

im2food: Object Detection for Food with Convolutional Neural Networks
Machine Learning and Interactive Systems Lab, CentraleSupélec   Jan.2015–Jun.2015

Gesture-based Remote Controller for Drones
Machine Learning and Interactive Systems Lab, CentraleSupélec   Dec.2013–Sep.2014