

Si-Qi LIU | Curriculum Vitae

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Experience

Google DeepMind

Senior Research Engineer

London

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

Research Intern, Research & Machine Intelligence (host: Kevin Murphy)

Mountain View

Jul.2016 - Nov.2016

- Our work (arxiv.org/abs/1612.00370) was published with a spotlight talk at ICCV 2017.

Google

Software Engineer Intern, Adwords - Optimisation

New York

Jun.2015 - Sep.2015

- Built large-scale distributed evaluation pipeline for CTR prediction models.

Collabora, The Document Foundation

Consultant Software Engineer (part-time)

Remote

Feb.2015 - May.2015

Google

Software Engineer Intern, Search - Knowledge

Zurich

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

Remote

Jul.2013 - Jan.2014

- Built LibreOffice Impress remote control for iOS, featured in LibreOffice 4.2.
- Work presented at LibreOffice developer conference 2014, Milan.

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

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

Organisations

Rézo, CentraleSupélec

Vice-President

2013 - 2015

- Provided web services and network infrastructure for students in Metz area.
- Organised meet-ups around software engineering topics (git, ROS, Django, Python, Android/iOS).

Lumière d’Afrique, CentraleSupélec

Volunteer

2013 - 2014

- Fund-raising for solar-powered lighting installation in schools and hospitals in Cameroon.

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

Other Projects

txt2calories: Nutrition Estimation via Natural Languages

Computational Linguistics Group, University of Oxford (supervisor: Phil Blunsom)

Feb.2016 - Jul.2016

metabolise: Fitness Tracking with Nutrition Estimation from Text

3rd place at hackathon HackCambridge, 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