LEO FENG

(+1) 408-663-7979 ⋄ leo.feng@umontreal.ca

EDUCATION

Université de Montréal (Mila) — Montreal, Canada
Masters of Science in Computer Science — *Expected Start Date: Sep 2020*

· Research Supervisor: Prof. Yoshua Bengio

University of Oxford — Oxford, UK
Bachelor of Arts in Computer Science — *Oct 2017 - Jun 2020*

· Represented University of Oxford in ACM International Collegiate Programming Competition (ICPC)
· First-Class Honours Results in Exams and Thesis
· Thesis Topic: Extending meta-learning methods for supervised learning
· Research Supervisor: Prof. Shimon Whiteson

RESEARCH/WORK EXPERIENCE

University of Oxford — Oxford, UK
Research Intern with Prof. Shimon Whiteson — *Jul 2019 - Oct. 2019*

· Topic: extending meta-gradient-based meta-learning methods via learned loss (meta-learning)
· This work was accepted to NeurIPS 2019 Workshop on Meta-Learning

Kyoto University — Kyoto, Japan
Research Intern with Prof. Atsuko Sehara-Fujisawa — *Dec 2018 - Jan 2019*

· Topic: clustering genes using weighted gene correlation network analysis (unsupervised learning)

Brave Software — London, UK
Research Intern — *Jun 2018 - Sept 2018*

· Worked on a client-side recommender system for delivering personalised advertisements and conducted user studies to determine important factors to consider in the development of the recommender system
· Built a model for CTR prediction of ads and investigated methods to estimate the shopping intent of users based on their browsing history
· Wrote and managed a pipeline which analyses user browser behaviour and generates ad statistics and communicated results with the product team

Whizz Education — London, UK
(Winter) Research Intern — *Dec 2017 - Dec 2017*

· Created a tool to separate hundreds of students into optimal study groups based on test results
· Used data compression techniques to optimise the grouping algorithm and improve page loading times significantly
· Presented tool to a panel of managers, including the Director of Education

Ivy Global — Toronto, Canada
Software Engineering Intern — *Aug 2016 - Jun 2017*
Software Engineering Intern — *Dec 2017 - May 2018*

· Developed a personalised study plan feature for students that analyses exam responses and generates individual reports

· Redesigned Content Management System (CMS) for content writers, improving the efficiency and simplifying the development and uploading of exams
· Assisted in porting websites from ASP Classic to ASP.NET

SELECTED AWARDS/ACHIEVEMENTS

Invitee, Deep Learning + Reinforcement Learning Summer School, Canada 2020

Travel Grant, NeurIPS Workshop on Meta-Learning (Acceptance Rate: 27%) 2019

Bronze Medal, North Western European Regionals ACM ICPC, *Netherlands* 2018

Bronze Medal, 29th International Olympiad of Informatics (IOI), *Iran* 2017

Gold Medal, Canadian Computing Olympiad, *Canada* 2017

Bronze Medal, North Western European Regionals ACM ICPC, *UK* 2017

Summer Conference Invitee, 36th International Mathematics Tournament of Towns, *Russia* 2015 (Topic: Enclosing walks and image segmentation algorithms)

Summer Conference Invitee, 35th International Mathematics Tournament of Towns, *Russia* 2014 (Declined)

International Olympiad Qualifier, Asian Pacific Math Olympiad 2015, 2017

National Olympiad, USA Math Olympiad Qualifier (2016), Canadian Math Olympiad Qualifier (2015-2017), USA Computing Olympiad (Highest Division: Platinum) (2015-2017), Canadian Computing Olympiad (2015: Silver Medal, 2016: Bronze Medal)

TEACHING EXPERIENCE

Teaching Assistant, Practical Demonstrator, Design and Analysis of Algorithms, University of Oxford, UK, Hilary Term 2020

Teaching Assistant, Practical Demonstrator, Concurrent Programming, University of Oxford, UK, Hilary Term 2020

PUBLICATIONS

Under Review

[1] L. Zintgraf, L. Feng, M. Igl, K. Hartikainen, K. Hofmann, and S. Whiteson. Meta-Learning Sparse Reward Tasks: Exploration in Approximate Hyper-State Space. *Under Review for NeurIPS*, 2020.

Peer-Reviewed

[2] L. Zintgraf, L. Feng, M. Igl, K. Hartikainen, K. Hofmann, and S. Whiteson. Exploration in approximate hyper-state space. *ICLR Workshop on Beyond "Tabula Rasa" in Reinforcement Learning*, 2020.

[3] L. Feng, L. Zintgraf, B. Peng, and S. Whiteson. Viable: fast adaptation via backpropagating learned loss. *NeurIPS Workshop on Meta-Learning*, 2019.

LANGUAGES

English (Native/Fluent), Mandarin Chinese (Experienced), French (Experienced), Japanese (Novice)