ANDREW GAMBARDELLA

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EDUCATION

University of Oxford · January 2017 - November 2021
Oxford, United Kingdom
Doctor of Philosophy in Engineering Science
St. Catherine's College
Supervisor: Professor Philip H. S. Torr

University of California, Berkeley · August 2010 - December 2013
Berkeley, California, United States of America
Major in Electrical Engineering and Computer Science
Minors in Mathematics and Japanese

Central Bucks High School West · August 2007 - May 2010
Doylestown, Pennsylvania, United States of America

PROFESSIONAL EXPERIENCE

University of Tokyo · August 2023 -
Bunkyou, Tokyo, Japan
Postdoctoral Researcher
Supervisor: Professor Yutaka Matsuo

KAIST · September 2022 - March 2023
Yuseong, Daejeon, South Korea
Postdoctoral Researcher
Supervisor: Professor Jinjoon Lee

KAIST · March 2022 - September 2022
Yuseong, Daejeon, South Korea
Visiting Researcher
Supervisor: Professor Jinjoon Lee

Cogent Labs (formerly Reactive, Inc.) · July 2016 - December 2016
Shibuya, Tokyo, Japan
Research Engineer

SoftBank Robotics · April 2015 - May 2016
Minato, Tokyo, Japan
Research Engineer

UC Berkeley · August 2012 - March 2015
Berkeley, California, United States of America
Undergraduate Researcher
Supervisor: Professor Satish Rao

PUBLICATIONS

gOd, mOther and sOldier: A Story of Oppression, Told Through the Lens of AI. **Andrew Gambardella**, Meeyung Chung, Doyo Choi, Jinjoon Lee. Leonardo, 2023.

Deep Transfer Learning with Bayesian Inference. **Andrew Gambardella**. DPhil Thesis, 2021

Detecting and Quantifying Malicious Activity with Simulation-based Inference. **Andrew Gambardella**, Bogdan State, Naeemullah Khan, Leo Tsourides, Philip H. S. Torr, Atılım Güneş Baydin. In International Conference on Machine Learning: Workshop on Socially Responsible Machine Learning, 2021.

Hierarchical Semantic Sonification for the Visually Impaired. **Andrew Gambardella**, Jinjoon Lee. In IJCAI: Workshop on Artificial Intelligence for Social Good, 2021.

Simulation-Based Inference for Global Health Decisions. Christian Schroeder de Witt, Bradley Gram-Hansen, Nantas Nardelli, **Andrew Gambardella**, Rob Zinkov, Puneet Dokania, N. Siddharth, Ana Belen Espinosa-Gonzalez, Ara Darzi, Philip Torr, Atılım Güneş Baydin. In International Conference on Machine Learning Workshop: ML for Global Health, 2020.

Multitask Soft Option Learning. Maximilian Igl, **Andrew Gambardella**, Nantas Nardelli, N. Siddharth, Wendelin Böhmer, Shimon Whiteson. In Uncertainty in Artificial Intelligence, 2020.

PREPRINTS

Language Models Do Hard Arithmetic Tasks Easily and Hardly Do Easy Arithmetic Tasks. **Andrew Gambardella**, Yusuke Iwasawa, Yutaka Matsuo. In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers), 2024.

Real-World Robot Applications of Foundation Models: A Review. Kento Kawaharazuka, Tatsuya Matsushima, **Andrew Gambardella**, Jiaxian Guo, Chris Paxton, Andy Zeng. In submission, 2024.

Efficient Data Mosaicing with Simulation-based Inference. **Andrew Gambardella**, Youngjun Choi, Doyo Choi, Jinjoon Lee. In submission, 2023.

Transflow Learning: Few-shot Adaptation for Normalizing Flow Models. **Andrew Gambardella**, Atılım Güneş Baydin, Philip H. S. Torr. In submission, 2019.

PROFICIENCIES

Computer Languages	Python, Lua, Java, C, Scheme, MATLAB
Software & Tools	PyTorch, JAX, NumPy, Pyro, NumPyro
Natural Languages	English (Native), Japanese (Bilingual), Korean (Advanced)

CERTIFICATIONS

Japanese Language Proficiency Test, N1	December 2014
Japan Kanji Aptitude Test (Kanji Kentei), Level 2	November 2023

REVIEWING

ACL Rolling Review	2023
ICML	2022
NeurIPS Preregistration Workshop	2020, 2021

RESEARCH GRANTS

Korea Foundation	March 2022 - October 2022
Meta	January 2020 - December 2020
Microsoft	January 2017 - December 2019

TEACHING

KAIST CTP404, Creative Practice, Teaching Assistant	Fall 2022