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Jonathan Gordon

Ph.D. Candidate in Machine Learning

EDUCATION

Ph.D. Machine Learning

2017-Present

University of Cambridge

Research on deep probabilistic models and scalable approximate inference algorithms.

MPhil Machine Learning - distinction, 1st in class

2016-2017

University of Cambridge

Thesis: *Bayesian Semisupervised and Active Learning with Deep Generative Models.*

MSc. Applied Statistics - magna cum laude

2014-2016

Ben-Gurion University

Honors program. Thesis: *A Machine Learning Analysis of ALS.*

BSc. Engineering - magna cum laude

2011-2015

Ben-Gurion University

Focusing on information engineering, data science, and applied statistics.

PAPERS

- Jonathan Gordon, Wessel P. Bruinsma, Andrew Y. K. Foong, James Requeima, Yann Dubois, and Richard E. Turner. Convolutional conditional neural processes. In *International Conference on Learning Representations*, 2020. (Oral presentation)
- Jonathan Gordon, David Lopez-Paz, Marco Baroni, and Diane Bouchacourt. Permutation equivariant models for compositional generalization in language. In *International Conference on Learning Representations*, 2020
- James Requeima*, Jonathan Gordon*, John Bronskill*, Sebastian Nowozin, and Richard E. Turner. Fast and flexible multi-task classification using Conditional Neural Adaptive Processes. In *Advances in Neural Information Processing Systems 32*, 2019. (Spotlight)
- Robert Pinsler, Jonathan Gordon, Eric Nalisnick, and José Miguel Hernández-Lobato. Bayesian batch active learning as sparse subset approximation. In *Advances in Neural Information Processing Systems 32*, 2019
- Jonathan Gordon*, John Bronskill*, Matthias Bauer, Sebastian Nowozin, and Richard Turner. Meta-learning probabilistic inference for prediction. In *International Conference on Learning Representations*, 2019
- Jonathan Gordon and José Miguel Hernández-Lobato. Combining deep generative and discriminative models for Bayesian semi-supervised learning. *Pattern Recognition*, 2019
- Marton Havasi, Jasper Snoek, Dustin Tran, Jonathan Gordon, and José Miguel Hernández-Lobato. Refining the variational posterior through iterative optimization. In *Bayesian Deep Learning Workshop, NeurIPS*, 2019

- o Francesco Paolo Casale*, Jonathan Gordon*, and Nicolo Fusi. Probabilistic neural architecture search. *arXiv preprint arXiv:1902.05116*, 2019
- o Jonathan Gordon*, John Bronskill*, Matthias Bauer, Sebastian Nowozin, and Richard E Turner. Consolidating the meta-learning zoo: A unifying perspective as posterior predictive inference. In *MetaLearning Workshop, NeurIPS 2018*, 2018
- o Jonathan Gordon*, John Bronskill*, Matthias Bauer, Sebastian Nowozin, and Richard E Turner. Versa: Versatile and efficient few-shot learning. In *Bayesian Deep Learning Workshop, NeurIPS 2018*, 2018

EXPERIENCE

Facebook AI Research

Summer 2019

PhD Research Internship

Working with Diane Bouchacourt and David Lopez-Paz on symmetries in language modelling.

Microsoft Research

Summer 2018

PhD Research Internship

Working with Nicolo Fusi and the AutoML group on neural architecture search.

University of Cambridge

2017-2018

Supervision (analogous to US teaching assistant)

Supervision and teaching duties for Cambridge module 3F8: Inference

Ben-Gurion University

2015-2016

Teaching Assistant

Teaching assistant for undergraduate and graduate courses in machine learning.

SCHOLARSHIPS AND AWARDS

Research Grant and Studentship

2017–2021

PhD Research Funding

AJA Karten Trust Scholarhip

2017–2020

Research Grant

Kenneth Lindsay Scholarship Trust

2017–2019

Research Grant

Dean's Scholarship for Outstanding Students

2015–2016

Graduate Scholarship

REFERENCES

Available upon request