

Email gordonjo@openai.com
Website gordonjo.github.io
LinkedIn linkedin.com/gordonjo
Github github.com/Gordonjo

Jonathan Gordon

Research Scientist at OpenAI

EXPERIENCE

OpenAI

2020–Present

Research Scientist

Working with Kenneth O. Stanley towards Open-Ended learning processes.

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

Supervisions

Supervision and teaching duties for Cambridge module 3F8: Inference and Advanced ML

Ben-Gurion University

2015-2016

Teaching Assistant

Teaching assistant for undergraduate and graduate courses in machine learning.

EDUCATION

Ph.D. Machine Learning

2017-2020

University of Cambridge

Research on deep probabilistic models and scalable approximate inference algorithms.

MPhil Machine Learning - Distinction

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.

PUBLICATIONS

- Wessel Bruinsma, James Requeima, Andrew Y. K. Foong, **Jonathan Gordon**, and Richard E Turner. The Gaussian neural process. In *Third Symposium on Advances in Approximate Bayesian Inference (contributed talk)*, 2021
- Andrew Y. K. Foong*, Wessel P. Bruinsma*, **Jonathan Gordon***, Yann Dubois, James Requeima, and Richard E. Turner. Meta-learning stationary stochastic process prediction with Convolutional Neural Processes. In *Advances in Neural Information Processing Systems*, 2020
- Eric Nalisnick, **Jonathan Gordon**, and José Miguel Hernández-Lobato. Predictive complexity priors. *arXiv preprint arXiv:2006.10801*, 2020
- John Bronskill*, **Jonathan Gordon***, James Requeima, Sebastian Nowozin, and Richard Turner. TASKNORM: rethinking batch normalization for meta-learning. In *International Conference on Machine Learning*, 2020
- **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
- Francesco Paolo Casale*, **Jonathan Gordon***, and Nicolo Fusi. Probabilistic neural architecture search. *arXiv preprint arXiv:1902.05116*, 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 2020*, 2020
- **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
- **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

CO-AUTHORED SOFTWARE

The Neural Process Family <i>A Tutorial and Unified Codebase</i> https://yanndubs.github.io/Neural-Process-Family	2020
NeuralProcesses.jl <i>Compositional Neural Processes in Julia</i> https://github.com/wesselb/NeuralProcesses.jl	2020
ConvCNP <i>Convolutional Conditional Neural Processes in PyTorch</i> https://github.com/cambridge-mlg/convcnp	2020
CNAPs <i>CNAPs and TASKNORM for few-shot classification in PyTorch</i> https://github.com/cambridge-mlg/cnaps	2019

SCHOLARSHIPS AND AWARDS

Research Grant and Studentship <i>Full PhD Research Funding</i>	2017–2021
Bruckmann Fund Award <i>Award for Outstanding Doctoral Research</i>	2019–2020
AJA Karten Trust Scholarhip <i>Research Grant</i>	2017–2020
Kenneth Lindsay Scholarship Trust <i>Research Grant</i>	2017–2019
Dean's Scholarship for Outstanding Students <i>Graduate Scholarship</i>	2015–2016

REFERENCES

Available upon request