Jonathan Gordon

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Experience _____

OpenAl San Francisco, CA

December 2020 - PRESENT RESEARCH TEAM LEAD

· Research Team Lead (Long Term Memory team)

- Lead team of research scientists and engineers
- Launched and lead multiple research projects focusing on retrieval and coding capabilities of LLMs
- Designed and shipped several capabilities to ChatGPT
- Recruited and mentored for both junior and senior RS/RE positions

· Senior Research Scientist (Codegen)

- Initiated and lead several research projects focusing on LLMs for code
- Helped take major projects to production (GPT-4 and ChatGPT)
- Co-lead high impact projects such as "Iterative Debugging" and "LLMs for Programming Competitions"

· Research Scientist (Open-Endedness)

- Working with Kenneth Stanley and Joel Lehman on Open-Ended learning processes for LLMs
- Initiated and lead major components of the research agenda
- Designed and experimented with novel algorithms for learning and post-training LLMs

Facebook AI Research Paris, FR

RESEARCH SCIENTIST (SUMMER INTERNSHIP)

Summer 2019

- · Working with Diane Bouchacourt and David Lopez-Paz on symmetries in language modelling.
- Publication: Permutation Equivariant Models for Compositional Generalization in Language

Microsoft Research Cambridge, MA

RESEARCH SCIENTIST (SUMMER INTERNSHIP)

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

• Publication: Probabilistic Neural Architecture Search

University of Cambridge Cambridge, UK

TEACHING ASSISTANT

- · Supervision and teaching duties for
 - 3F8: Inference
 - Advanced Machine Learning Seminar

Education

Cambridge University Cambridge, UK

Ph.D in Machine Learning • Research on deep probabilistic models and scalable approximate inference algorithms

• Thesis: Advances in Probabilistic Meta-Learning and the Neural Process Family

Cambridge University Cambridge, UK

MPHIL IN MACHINE LEARNING

August 2017

· Graduated with Distinction

· Graduated Magna cum laude

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

Ben-Gurion University of the Negev

MSc. Applied Statistics

• Thesis: A Machine Learning Analysis of ALS.

Ben-Gurion University of the Negev

BSc. Engineering

• Graduated Magna cum laude · Focusing on information engineering, data science, and applied statistics.

August 2014

Be'er Sheva, Israel

Be'er Sheva, Israel

August 2016

Summer 2018

2017-2019

December 2020

Selected Publications

The Gaussian Neural Process

Wessel Bruinsma, James Requeima, Andrew Y. K. Foong, Jonathan Gordon, and Richard E Turner	2021
Third Symposium on Advances in Approximate Bayesian Inference (contributed talk)	2021

Evolution Through Large Models

JOEL LEHMAN, JONATHAN GORDON, SHAWN JAIN, KAMAL NDOUSSE, CATHY YEH, F	(ENNETH O. STANLEY 2022
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Convolutional Conditional Neural Processes

Jonathan Gordon, Wessel P. Bruinsma, Andrew Y. K. Foong, James Requeima, Yann Dubois, and Richard E. Turner	2020
INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS (ORAL PRESENTATION)	2020

Permutation equivariant models for compositional generalization in language

JONATHAN GORDON, DAVID LOPEZ-PAZ, MARCO BARONI, AND DIANE BOUCHACOURT	2020
International Conference on Learning Representations	2020

Predictive complexity priors

Eric Nalisnick, Jonathan Gordon, and Jos é Miguel Herna ndez-Lobato	2021
INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND STATISTICS	2021

TaskNorm: rethinking batch normalization for meta-learning

John Bronskill, Jonathan Gordon, James Requeima, Sebastian Nowozin, and Richard Turner	2020
INTERNATIONAL CONFERENCE ON MACHINE LEARNING	2020

Fast and flexible multi-task classification using Conditional Neural Adaptive Processes

James Requeima, Jonathan Gordon, John Bronskill, Sebastian Nowozin, and Richard E. Turner	2019
Advances in Neural Information Processing Systems 32 (Spotlight)	2013

Bayesian batch active learning as sparse subset approximation

K	KOBERT PINSLER, JONATHAN GORDON, ERIC NALISNICK, AND JOS E MIGUEL HERN ANDEZ- LOBATO	2019
Α	Advances in Neural Information Processing Systems 32	20.0

Meta-learning probabilistic inference for prediction

Jonathan Gordon, John Bronskill, Matthias Bauer, Sebastian Nowozin, and Richard Turner	2019
INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS	2013

Co-Authored Academic Software

The Neural Process Family

- A tutorial and unified codebase for Neural Processes in Python (PyTorch
- https://yanndubs.github.io/Neural-Process-Family

NeuralProcesses.jl

- Compositional Neural Processes in Julia
- https://github.com/wesselb/NeuralProcesses.jl

ConvCNP

- Convolutional Conditional Neural Processes in PyTorch
- https://github.com/cambridge-mlg/convcnp

CNAPs

- CNAPs and TaskNorm for few-shot classification in PyTorch
- https://github.com/cambridge-mlg/cnaps