

Emilien Dupont

<https://emiliendupont.github.io>

EDUCATION

- **University of Oxford** Oxford, UK
PhD Machine Learning
Oct 2018 - Oct 2021
 - Supervised by Yee Whye Teh & Arnaud Doucet
- **Stanford University** Stanford, CA
MS Computational and Mathematical Engineering
Sept 2014 - Mar 2016
 - GPA: 4.02
- **Imperial College London** London, UK
BSc Theoretical Physics
Oct 2010 - Jun 2014
 - Rank: 1/206 students, Grade: 87.2%

EXPERIENCE

- **Apple** Seattle, WA
Research Intern
June 2019 - Aug 2019
 - Research on neural rendering supervised by Qi Shan
- **Schlumberger STIC** Menlo Park, CA
Machine Learning Scientist
June 2016 - July 2018
 - Created, implemented and deployed machine learning algorithms to solve problems in time series, vision and geology, improving state of the art for several tasks
 - Research on deep generative models with a focus on learning interpretable representations
- **Gurobi Optimization** Palo Alto, CA
Software Engineering Intern
June 2015 - Aug 2015
 - Researched, formulated and solved integer optimization models for a wide area of industry applications including energy, telecom and medicine
- **DTU Compute** Lyngby, Denmark
Research Intern
June 2013 - Sep 2013
 - Research on sparse dynamics for PDEs supervised by Allan Engsig-Karup

PUBLICATIONS

- [1] **E. Dupont**, A. Doucet, Y. W. Teh, Augmented Neural ODEs, *NeurIPS 2019*
- [2] **E. Dupont**, S. Suresha, Probabilistic Semantic Inpainting with Pixel Constrained CNNs, *AISTATS 2019*
- [3] **E. Dupont**, Learning Disentangled Joint Continuous and Discrete Representations, *NeurIPS 2018*
- [4] **E. Dupont**, T. Zhang, P. Tilke, L. Liang, W. Bailey, Generating Realistic Geology Conditioned on Physical Measurements with GANs, *ICML 2018 TADGM Workshop*

AWARDS

- NeurIPS Top Reviewer 2019
Top 400 reviewer
- Google DeepMind Scholarship 2018
PhD funding, 150,000 USD
- Schlumberger Out of the Ordinary Award 2018
Award for extraordinary technical achievements

- Digital Forum Innovation Award 2017
Schlumberger award for most innovative project among 300+ submissions
- Schlumberger AI Leader 2016
Elected as leader of the 1000+ AI community within Schlumberger
- Governor's Prize 2014
Ranked 1st of 206 students in Physics at Imperial College London

TEACHING

- Teaching Assistant, SB2b, Statistical Machine Learning Oxford, 2019
- Teaching Assistant, CME 102, Ordinary Differential Equations Stanford, 2016

SKILLS

- Programming
 - *Experienced*: Python, C++, Matlab
 - *Familiar*: JavaScript, Scala (Spark)
- Frameworks
 - *Deep Learning*: Pytorch, TensorFlow, Keras
 - *Visualization*: d3, plotly
- Languages
 - *Fluent*: Danish, English, French
 - *Intermediate*: German

PROJECTS

- **Visualizations**
Created d3 based **interactive visualizations** of mathematical concepts, data and generative art
- **Open source paper implementations**
Open sourced code for several deep learning papers with ★700+ on **Github**

INVITED TALKS

- Combining Physics and Machine Learning with Neural ODEs 2019
Abingdon, UK
- Deep Learning for Prognostics and Health Management Tutorial 2017
Prognostics and Health Management Conference, Tampa Bay, FL
- Deep Learning Applications Panel 2017
Prognostics and Health Management Conference, Tampa Bay, FL

LINKS

- emiliendupont.github.io
- github.com/EmilienDupont
- observablehq.com/@emiliendupont
- twitter.com/emidup
- linkedin.com/in/emiliendupont
- scholar.google.com/citations?user=IY5WyIEAAAAJ