## Marc Finzi

	Education
2019 - Now	Ph.D. Candidate in Computer Science, NYU Courant, NYC Supervised by Andrew Gordon Wilson
2017 - 2019	<b>Ph.D. Student</b> , <i>Cornell</i> , Ithaca, NY Supervised by Andrew Gordon Wilson, obtained masters in Operations Research and transferred to NYU
2013 - 2017	B.S. Physics, Harvey Mudd College, Claremont, CA, GPA: 3.7
	Experience
Summer 2021	Deep Learning Research Intern at NVIDIA, Lidar Perception  o Improving object detection from Lidar point clouds
Summer 2020	Research Intern at Qualcomm, with Max Welling  O Developed probabilistic numeric convolutional neural networks, culminating in a patent application and ICLR2021 paper
Summer 2019	Applied Scientist intern at Amazon  o Applying deep learning methods for ranking and recommendation
2015 - 2017	<ul> <li>Undergraduate Thesis in Physics, Tom Donnelly's lab, Harvey Mudd College</li> <li>Led three-man HMC team at UT Austin to conduct laser physics experiment</li> </ul>
	<b>Applied Physics Intern at NASA</b> , <i>Alexander Kutyrev's lab</i> , NASA Goddard Space Flight Center • Embedded systems programming, analogue and digital circuit design, PCB design, computer vision
	Technical Skills
	Advanced Machine Learning Systems, Computer Vision, Bayesian Machine Learning, Topics in ML optimization Numerical Analysis for Data Science, Approximate Dynamic Programming, Algorithms, Stochastic Processes
Fluency	PyTorch, Jax, Python, C++, LATEX
	Publications
ICLR 2022	Deconstructing the Inductive Biases of Hamiltonian Neural Networks Nate Gruver, Marc Finzi, Samuel Stanton, Andrew Gordon Wilson
NeurIPS 2021	Residual Pathway Priors for Soft Equivariance Constraints  Marc Finzi*, Greg Benton*, Andrew Gordon Wilson
ICML 2021	A Practical Method for Constructing Equivariant Multilayer Perceptrons for Arbitrary Matrix Groups Marc Finzi, Max Welling, Andrew Gordon Wilson
ICML 2021	SKIing on Simplices: Kernel Interpolation on the Permutohedral Lattice for Scalable Gaussian Processes Sanyaam Kapoor*, Marc Finzi*, Ke Alexander Wang, Andrew Gordon Wilson
ICLR 2021	Probabilistic Numeric Convolutional Neural Networks  Marc Finzi, Roberto Bondesan, Max Welling
NeurIPS 2020	Simplifying Hamiltonian and Lagrangian Neural Networks via Explicit Constraints  Marc Finzi*, Ke Alexander Wang*, Andrew Gordon Wilson
NeurIPS 2020	Learning Invariances in Neural Networks from Training Data Greg Benton, Marc Finzi, Pavel Izmailov, Andrew Gordon Wilson
ICML 2020	Generalizing Convolutional Neural Networks for Equivariance to Lie Groups on Arbitrary Continuous Data
ICMI 2020	Marc Finzi, Samuel Stanton, Pavel Izmailov, Andrew Gordon Wilson
ICIVIL 2020	Semi-Supervised Learning with Normalizing Flows Pavel Izmailov, Polina Kirichenko, Marc Finzi, Andrew Gordon Wilson
ICLR 2019	There Are Many Consistent Explanations of Unlabeled Data: Why You Should Average Ben Athiwaratkun, Marc Finzi, Pavel Izmailov, Andrew Gordon Wilson

## Awards

2021 Jacob T. Schwartz Fellowship

Awarded for outstanding research performance in the PhD program