

Reuben Feinman

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EDUCATION	New York University , New York, NY Ph.D., Neural Science • Advisors: Brenden M. Lake & Eero P. Simoncelli • Focus: Computation, perception & learning Brown University , Providence, RI Sc.B. with Honors, Applied Mathematics • Honors thesis: A Deep Belief Network Approach to Learning Depth from Optical Flow • Thesis advisors: Thomas Serre & Stuart Geman • GPA: 3.9 / 4.0	Sep 2017 – Present Sep 2011 – May 2015
HONORS & AWARDS	Google PhD Fellowship in Computational Neuroscience , Google Fellowships awarded annually to ~30 PhD students around the globe studying CS and related disciplines. Henry Mitchell McCracken Fellowship , NYU GSAS Fellowships awarded annually to promising first-year PhD students in the GSAS. CTO Recognition Award , Symantec Corporation Awarded by CTO Steve Trilling for significant contributions to the company's technologies. Sigma Xi Honor Society , Brown Chapter Sigma Xi Awarded for strong academics and promising research achievement in a field of applied science.	2018 – 2020 May 2016 May 2015
PUBLICATIONS & PATENTS	PUBLICATIONS <u>Feinman, R. and Lake, B.M. (2018). Learning inductive biases with simple neural networks. In <i>Proceedings of the 40th Annual Conference of the Cognitive Science Society</i>.</u> PREPRINTS <u>Feinman, R., Curtin, R.R., Shintre, S., and Gardner, A.B. (2017). Detecting adversarial samples from artifacts. <i>arXiv preprint arXiv:1703.00410</i>.</u> <u>Papernot, N., Goodfellow, I., Sheatsley, R., Feinman, R., and McDaniel, P. (2016). Cleverhans v1.0.0: an adversarial machine learning library. <i>arXiv preprint arXiv:1610.00768</i>.</u> PATENTS <u>Feinman, R., Echauz, J., and Gardner, A.B. (2016). Systems and methods for trichotomous malware classification. <i>US Patent App. No. 15/356,526</i>.</u> <u>Feinman, R., Gardner, A.B., and Parikh, J. (2016). Efficient feature selection. <i>US Patent App. No. 15/282,645</i>.</u> <u>Feinman, R. and Parikh, J. (2016). Systems and methods for detecting malware based on event dependencies. <i>US Patent App. No. 15/188,950</i>.</u>	
RESEARCH TALKS	Learning Inductive Biases with Neural Networks , NYU CILVR lab meeting Artifacts of Adversarial Examples , NYU LCV meeting	Feb 2018 Nov 2017
WORK EXPERIENCE	Symantec Corporation , Mountain View, CA Machine Learning Engineer, Center for Advanced Machine Learning ▪ Worked as the only non-PhD in a team of 10, with the consulting of ML pioneer Ruslan Salakhutdinov. ▪ Led an R&D effort that resulted in the dramatic improvement of known and unknown malware detection rates on 100+ million endpoints worldwide. ▪ Developed a ML model that caught and blocked 22 million attempts of the global and infamous “WannaCry” ransomware attack.	Jul 2015 – Jun 2017
PRESS COVERAGE	Security Week , Symantec Adds Machine Learning to Endpoint Security Lineup eWeek , Symantec Adds Deep Learning to Anti-Malware Tools to Detect Zero-Days	Sep 2016 Jan 2016
SKILLS	Python, Jupyter, TensorFlow, PyTorch, Pyro, Docker, Git, MATLAB, L ^A T _E X, Java, C	

INTERESTS Running, skiing, scuba diving, tennis, fishing, music production

REFERENCES *Mentors and colleagues who have written recommendations for me:*

Dr. Brenden Lake, Assistant Professor of Psychology and Data Science, New York University

Dr. Thomas Serre, Associate Professor of Cognitive Linguistic & Psych. Sciences, Brown University

Dr. Stuart Geman, James Manning Professor of Applied Mathematics, Brown University

Dr. Andrew Gardner, Senior Technical Director of Machine Learning, Symantec Corporation

Dr. Nikolaos Vasiloglou, Technical Director of Machine Learning, Symantec Corporation