Eric Gentry LinkedIn.com/in/er	ic-s-gentry gentry.e@gmail.com	egentry.github.io GitHub:egentry	
Education	University of California, Santa Cruz PhD; Astrophysics with an Emphasis in Statistics (<i>GPA</i> : 4.0/4.0)	2014 - 2019	
	Selected coursework: Advanced Machine Learning (Winter 2018), Bay Statistical Modeling (Spring 2016), High Performance Computing (Sp		
	Massachusetts Institute of Technology BS; Physics (<i>GPA</i> : 4.9/5.0)	2010 - 2014	
WORK EXPERIENCE	Amazon — Sponsored Brands Applied Scienctist II	2020 —	
	Created a model to predict the most popular brands for any searchBuilt DNN-based model for inferring whether a query is generic or		
	Microsoft — Web Experiences Team (Search, Ads, Shopping) Data & Applied Scientist	2019 — 2020	
	- Built a content-aware product recommender using deep neural netw combining text, images and attribute graphs into a single embeddir. Created neural training sets from existing user logs introducing new	\log (tensorflow)	
	 Created novel training sets from existing user logs, introducing new DNN methods to supplement existing model training pipelines with Created boosted decision tree models for ad click prediction 		
	UCSC Astronomy & Astrophysics NSF Graduate Research Fellow	2014 - 2019	
	 Designed conditional Generative Adversarial Networks (cGANs) that new galaxy images to augment training of neural nets (Python, ten Built image classifier using Convolutional Neural Networks and Ran to identify rare dwarf galaxies (Python, keras, scikit-learn) 	sorflow)	
	- Extended distributed software for 3D supernova simulations (C, C+ scales well to at least 1000 CPUs and ran it for over 250,000 CPU l	nours.	
	Published detailed analysis of a few key simulations ran by this cod - Published Bayesian statistical analysis of hundreds of supernova sin		
	Microsoft Data Science Intern	Summer 2018	
	 Built clustering models on top of deep representations to identify st the differences between natural language datasets (Python, tensorff- Designed online, unsupervised anomaly detection models (Python) 		
	LendUp (consumer lending startup) Data Science Intern	Summer 2017	
	Predicted risk of credit card applicants using statistical modeling (IPerformed exploratory data analysis to support new product development		
Tools	Python, tensorflow, keras, pyspark, SQL, pytorch, scikit-learn, C++/C	n, tensorflow, keras, pyspark, SQL, pytorch, scikit-learn, C++/C	
Selected Awards	NSF Graduate Research Fellow2016 — 2019- \$138,000 award supporting my PhD research; 2,000 fellows selected from 17,000 applicantsOsterbrock Prize Leadership Fellow (UC Santa Cruz)2015 — 2018- \$5,000 award with continued mentoring to develop technical leadership skills		