		Jeremy Irvin	
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EducationStanford, PhD Com Co-advised by Andr		uter Science, X/4.00 GPA v Ng and TBD	Sep 2019 -
	Stanford, M.S. Comp Artificial Intelligence	uter Science, 3.99/4.00 GPA Track	Sep 2016 - June 2019
	<i>UC Santa Barbara</i> , B College of Creative St	.S. Computer Science and B.S. Mathema udies (CCS)	atics, 3.97/4.00 GPA 2012 - June 2016
Publications	• Irvin, Jeremy*, Rajpurkar, Pranav* et al. (2019) "CheXpert: A Large Chest Radiograph Dataset with Uncertainty Labels and Expert Comparison." In AAAI Conference on Artificial Intelligence.		
	• Rajpurkar, Pranav [*] , Irvin, Jeremy [*] , et al. (2018) "Deep learning for chest radiograph diagnosis: A retro- spective comparison of CheXNeXt to practicing radiologists." In <i>PLOS Medicine</i> .		
	• Bien, Nicholas [*] , Rajpurkar, Pranav [*] , Ball, Robyn, Irvin, Jeremy , et al. (2018) "Automated and assisted diagnosis for knee MR using deep learning". In <i>PLOS Medicine</i> .		
	• Rajpurkar, Pranav [*] , Irvin, Jeremy [*] , et al. (2018) "MURA: Large Dataset for Abnormality Detection in Musculoskeletal Radiographs." In <i>1st Conference on Medical Imaging with Deep Learning</i> .		
	• Rajpurkar, Pranav [*] , Irvin, Jeremy [*] , et al. (2017) "CheXNet: Radiologist-Level Pneumonia Detection on Chest X-Rays with Deep Learning." <i>arXiv preprint arXiv:1711.05225</i> .		
	• Irvin, Jeremy, Spokoyny, Daniel, and Fermín Moscoso del Prado Martín. (2016) "Dynamical systems modeling of the child–mother dyad: Causality between child-directed language complexity and language development." In <i>Proceedings of the 38th Annual Conference of the Cognitive Science Society</i> .		
	• Spokoyny, Daniel, Irvin, Jeremy , and Fermín Moscoso del Prado Martín. (2016) "Explicit Causal Connections between the Acquisition of Linguistic Tiers: Evidence from Dynamical Systems Modeling." In <i>The 54th Annual Meeting of the Association for Computational Linguistics</i> .		
	• Fermín Moscoso del Prado Martín, Irvin, Jeremy , Spokoyny, Daniel. (2016) "The properties of children's language are caused by those of their mothers', and vice-versa" [submitted to Nature Human Behavior].		
	• Irvin, Jeremy, Fermín Moscoso del Prado Martín. (2016) "Application of Dynamical Systems to Model Human Language Development." Undergraduate Thesis.		
	* equal contribution		
Teaching	Bootcamp Coorganizer, StanfordFall 2017 -stanfordmlgroup.github.io/programs/aihc-bootcamp-winter2018/• Coorganized four quarter-long 8-16 person AI in healthcare bootcamps with several professors• Led teams of students on research projects across radiology, pathology, and public health		
	Course Assistant, Sta	nford	Fall 2017
	 Teaching assistant Led weekly section Held numerous of 	t for Stanford's machine learning course (Concovering external material fice hours and organized midterm logistics	CS229)
	Co-lecturer, UCSB computer-learning • Co-taught a cours	.github.io/class/ e on ML, NLP, and Deep Learning	Winter 2016

- Led 15 course lectures throughout the quarter
 Created over 250 lecture slides

Data Scientist Intern, Microsoft

Market Intelligence

- Trained deep learning intent classifier models using CNTK
- Built a large scale, unsupervised query embedding model to learn information-rich embeddings
- Improved market intelligence platform by integrating deep learning tools into the insights pipeline

Software Engineer Intern, Microsoft

Bing Predicts

- Created a model to predict the MTV Video Music Awards's using Bing search and social data
- Wrote Python for scraping, feature engineering, model testing, and MART Gradient Boosting training
- Additionally implemented LSTM's for time series forecasting using Keras and CNTK

Software Engineer Intern, Microsoft

Satori (Knowledge Graph) Within Bing

- Developed an algorithm to detect subtle entity relations in an immense ontology and rank them by novelty
- Wrote C# and internal query language as part of an R&D ML pipeline
- Increased run-time by two orders of magnitude, allowing for efficient discovery of the relations

Summer 2016

Summer 2015

Industry

Summer 2017