

Mike Wu

334 Jordan Hall
(858) 740-9967
wumike@stanford.edu
<https://www.mikehwu.com>

Education	Stanford University Ph.D. in Computer Science Advisor: Noah Goodman	2017 - Present
	Yale University , Hopper College B.S. with Distinction in Computer Science Yale college council, science committee	2012 - 2016
	University of Oxford , New College 1st mark in three courses in Computer Science Oxford computing society	2015
Awards and Honors	IDEO CoLab Fellow	2019
	Google Cloud Platform education grant	2018
	AngelHack, augmented reality category 1st place	2018
	NSF Graduate Research Fellowship	2017
	API World Hackathon, Telesign API 1st place	2017
	Trueface.ai Hackathon, 1st place	2017
	HackMIT Top 8 Hacks, Dropbox API 1st place	2015
	Qualcomm QLiving university scholarship	2014
	Intel ISEF semifinalist	2012
	Siemens Competition semifinalist	2012
	Intel ISEF finalist, 3rd place in Computer Science	2011
	XSEDE best student poster	2011
Submitted / Under Review	Mike Wu , Noah Goodman, Stefano Ermon. Differentiable Antithetic Sampling for Variance Reduction in Stochastic Variational Inference. <i>Under review</i> .	
Conference and Journal Proceedings	Mike Wu , Milan Mosse, Noah Goodman, Chris Piech. Zero Shot Learning for Code Education: Rubric Sampling with Deep Learning Inference. In <i>Proc. 33rd AAAI Conference on Artificial Intelligence (AAAI)</i> , 2019. [Oral presentation (12 min) .]	
	Mike Wu , Noah Goodman. Multimodal Generative Models for Scalable Weakly-Supervised Learning. <i>Proc. 32nd Annual Conference on Neural Information Processing Systems (NeurIPS)</i> , 2018.	
	Mike Wu , Michael C. Hughes, Sonali Parbhoo, Maurizio Zazzi, Volker Roth, Finale Doshi-Velez. Beyond Sparsity: Tree Regularization of Deep Models for Interpretability. In <i>Proc. 32nd AAAI Conference on Artificial Intelligence (AAAI)</i> , 2018. [Spotlight presentation (2 min) .]	
	Marzyeh Ghassemi, Mike Wu , Michael C. Hughes, Finale Doshi-Velez. Predicting Intervention Onset in the ICU with Switching Statespace Models. In <i>Proc. AMIA</i>	

Summit on Clinical Research Informatics (CRI), 2017. [Nominated for Best Paper.]

Mike Wu, Marzyeh Ghassemi, Mengling Feng, Leo Anthony Celi, Peter Szolovitz, Finale Doshi-Velez. Understanding Vassopressor Intervention and Weaning: Risk Prediction in a Public Heterogeneous Clinical Time Series Database. In *Journal of the American Medical Association, Volume 24, Issue 3, No. 1 (JAMIA)*, 2016.

Mike Wu, Madhu Krishnan. Edge-based Crowd Detection from Single Image Datasets. In *International Journal of Computer Science Issues, Volume 12, Issue 1, No. 1 (IJCSI)*, 2013.

Madhu Krishnan, **Mike Wu**, Young Kang, Sarah H. Lee. Autonomous Mapping and Navigation through Utilization of Edge-based Optical Flow and Time-to-Collision. In *ARPN Journal of Engineering and Applied Sciences, Volume 7, No. 12*, 2012.

Workshops	Mike Wu , Sonali Parbhoo, Finale Doshi-Velez. Beyond Sparsity: Tree Regularization of Deep Models for Interpretability. <i>NeurIPS 2017 Workshop on Transparent and interpretable Machine Learning in Safety Critical Environments</i> . [Contributed talk (10 min).]
Patents	Frank Wood, Mike Wu , Yura Perov, Hongseok Yang. Computing engine, software, system and method. US Patent App. 15/465,131, 2017.
Teaching Experience	<div> Teaching Assistant, Dept. of Computer Science, Yale University Spring 2016 CPSC437: Operating System Concepts (Avi Silberschatz) </div> <div> Teaching Assistant, School of Management, Yale University Fall 2015 MGT656: Management of Software Development (Kyle Jensen) </div>
Invited Talks	Yale Technology Conference, Yale University, 2016. Probabilistic Programming Workshop, University of Southampton, 2016.
Conference Presentations	Judith Fan, Robert X.D. Hawkins, Mike Wu , Noah Goodman. Modeling contextual flexibility in visual communication. <i>Vision Sciences Society Annual Meeting (VSS)</i> , 2018. William Smith, Mike Wu , Yura Perov, Frank Wood, Hongseok Yang. <i>Inaugural International Conference on Probabilistic Programming. (PROBPROG)</i> , 2018.
Industry Experience	<div> Facebook Applied Machine Learning (AML) 2016-2017 Visiting engineer in Computer Vision. </div> <div> Lattice Data 2016 Software engineer. </div> <div> Invrea (Inverse Reasoning) 2015-2017 http://invrea.com Co-founder / engineer. </div>

YHack
<https://www.yhack.org>
Co-founder.

2013-2016

Ionis Pharmaceuticals
Data science Intern.

2013