# Mike H. Wu

me@mikehwu.com | **mikehwu.com** | (858) 740-9967

## Education

**Yale University**
B.S. Computer Science
Distinction in the Major
Yale College Council
Study Abroad at Oxford
Class of 2016

**Stanford University**
M.S., Ph.D. Computer Science
Advised by Noah Goodman
Karr Family Fellow (SIGF)
NSF Graduate Research Fellow
Class of 2022

## Honors

Botha-Chan Innovation Fellow (2021), Pear VC Fellow (2020), IDEO Colab Fellow (2019)
Education Data Mining 2020 Best Paper Award (first author)
AAAI 2019 Outstanding Student Paper Award (first author)
AMIA CRI 2017 Informatics Award Runner-up
AngelHack 2018 1st place, API World Hackathon 2017 1st place, HackMIT 2015 Top 8 hacks
Reviewer for ICML 2021, NeurIPS 2021, ICLR 2022
TA for ME208 (Jeffrey Schox), CS224S (Andrew Maas), CS221 (Chelsea Finn), CS398 (Chris Piech)

## Professional

Facebook Research
Menlo Park, CA
**Research Engineer** 2016 - 2017

Part of the applied machine learning (AML) team. Worked on computer vision projects to enable engineers to easily train powerful vision models.

Lattice Data
Menlo Park, CA
**Software Engineer** 2016

Startup acquired by Apple. Worked on projects to leverage weak supervision algorithms to build classifiers from noisy labels on unstructured data.

YHack
www.yhack.org
**Co-Founder** 2013-2016

Founded one of the largest international collegiate hackathons. Raised over 200K yearly to bring students to Yale for a 48 hour hackathon.

Ionis Pharmaceuticals
Carlsbad, CA
**Data Science Intern** 2013

Built machine learning models to predict effectiveness of RNA-targeted ("antisense") therapeutics.

## Press

**New York Times** *Can A.I. Grade Your Next Test?* (2021)
**Stanford News** *First-of-its-kind Stanford machine learning tool…* (2021)
**The Stanford AI Lab Blog** *Meta-Learning Student Feedback to 16,000 Solutions* (2021)

## Select Papers

Worked in AI research labs at Stanford, Harvard, Oxford, and Yale. Published **over 20 papers** at top AI conferences and journals.

Wu Mike, et al. "Improving Compositionality of Neural Networks by Decoding Representations to Inputs." NeurIPS (2021).
Wu Mike, et al. "Optimizing for Interpretability in Deep Neural Networks with Simulable Decision Trees." JAIR (2021).
Wu, Mike, et al. "Conditional Negative Sampling for Contrastive Learning of Visual Representations." ICLR (2020).
Wu, Mike, et al. "Variational Item Response Theory: Fast, Accurate, and Expressive." Education Data Mining (2020).
Wu, Mike, et al. "Meta-Amortized Variational Inference and Learning." AAAI (2020).
Wu, Mike, Noah Goodman, and Stefano Ermon. "Differentiable antithetic sampling for variance reduction in stochastic variational inference." AISTATS (2019).
Wu, Mike, and Noah Goodman. "Multimodal generative models for scalable weakly-supervised learning." NeurIPS (2018).
Wu, Mike, et al. "Beyond sparsity: Tree regularization of deep models for interpretability." AAAI (2017).
Wu, Mike, et al. "[...] Risk prediction in a public heterogeneous clinical time series database." JAMIA (2017).