

Catherine Wong

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Education

- 2018- Massachusetts Institute of Technology
Ph.D. in Brain and Cognitive Science
Adviser: Josh Tenenbaum
- 2018 Stanford University
M.S. in Computer Science
- 2017 Stanford University
B.A. in Computer Science *with Honors*, Minor in Creative Writing
Academic Adviser: Dan Jurafsky
Thesis Adviser: Sebastian Thrun
Thesis: “Feature-Conditioned Neural Network Pre-training for Skin Cancer Classification”

Employment

- 2018 Research Assistant, Stanford Computational Vision and Geometry Lab
- 2017 Research Intern, Google
- 2017 Research Assistant, Thrun Lab at Stanford
- 2016 Software Engineering Intern, Flatiron Health
- 2015 Software Engineering Intern, Palantir Philanthropy
- 2015 Software Engineering Intern, Google
- 2014 Software Engineering Intern, Google

Honors

- 2018 MIT, Singleton Presidential Graduate Fellowship
- 2017 Stanford, Siebel Scholar
- 2017 Stanford, Wegbreit Prize for best undergraduate honors thesis in CS
- 2017 Stanford, Terman Engineering Award (Top 5% Engineering)
- 2016 Tau Beta Pi Engineering Honor Society
- 2014 Stanford President’s Award for Academic Excellence
- 2013 Intel Science Talent Search National Finalist
- 2012 Research Science Institute Scholar

Publications and Manuscripts in Preparation

- 2020 C. Wong, K. Ellis, J. Andreas, J. Tenenbaum, “Leveraging natural language for program search and abstraction learning”. *Under review, NeurIPS.*
- 2020 C. Wong, K. Ellis, J. Andreas, J. Tenenbaum, “Natural language for program search and abstraction learning”. *AAAI Symposium on Conceptual Abstraction (oral)*

- 2020 S. Acquaviva, Y. Pu, C. Wong, et. al, “Concept grounding of ARC with iterated human communications”, *AAAI Symposium on Conceptual Abstraction*.
- 2020 K. Ellis, C. Wong, M. Nye, et. al, “DreamCoder: Growing generalizable, interpretable knowledge with wake-sleep Bayesian program learning”. *Preprint, ArXiv*.
- 2019 C. Wong, K. Ellis, M. Sablé-Meyer, J. Tenenbaum, “Modeling expertise with neurally-guided Bayesian program induction”. *CogSci*.
- 2019 J. Gauthier*, J. Loula*, E. Pollock*, T. Wilson*, C. Wong*, “From mental representations to neural codes: a multi-level approach”. *Behavioral Brain Sciences (BBS)*.
- 2018 C. Wong, N. Houlsby, Y. Lu, A. Gesmundo. “Transfer learning with AutoML”. *NeurIPS*.
- 2015 JF. Regan, N. Kamitaki, T. Legler, S. Cooper, N. Klitgord, G. Karlin-Neumann, C. Wong, S. Hodges, R. Koehler, S. Tzonev, and S. McCarroll. “A rapid molecular approach for chromosomal phasing”. *PLOS One*.
- 2012 C. Wong. “Cell-phone compatible wireless stethoscope.” U.S. Patent Application No. 13/326,927.

* Indicates equal contribution.

Teaching

- 2020 Teaching Assistant, Computational Cognitive Science, MIT
- 2019 Teaching Assistant, Topics in Infant and Early Childhood Cognition, MIT

Professional Service

- 2020- Institute Committee on Race and Diversity, MIT
- 2019- Brain and Cognitive Sciences Philosophy Circle, Co-organizer, MIT
- 2016 Engineers for a Sustainable World, Ghana Hermio Project Team Lead, Stanford
- 2015 Engineers for a Sustainable World, Medic Mobile Project Team Lead, Stanford

Fiction and Sound

- 2020 Bayou Magazine, “Clear”
- 2019 Shenandoah, “In Residence”
- 2018 The Cimarron Review, “Feeding Jobs”
- 2018 Chicago Quarterly Review, “Tomorrow Never Knows”
- 2017 Nancy (WNYC), “Fear of Being Butch”
- WNYC News, “Find the Lead-Tainted Water Fountains in NYC Schools”
- 2013 Popshot Magazine, “Exhilaration”, “Winged”
- 2019 Glimmer Train Magazine, January/February Fiction Open Winner, “Clear”
- 2016 Kalanithi Fiction Prize, “Parlor Talk”
- 2014 Stanford Undergraduate Fiction Prize, “In Residence”
- 2013 U.S. Presidential Scholar in the Arts, Creative Writing
- 2018 Stanford Storytelling Project, Senior Producer

2017 WNYC Studios, Production Intern

Et Cetera

2018 “Latitudes”, serial audio documentary about biking across America in 2018.

2017 Stanford Arts Grant, “Undocumented”, multimedia installation on American visa applications.

Languages: English (Native), Spanish (Fluent), Cantonese (Mostly movies)