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)