

# Dan Fu

---

E-mail: [danfu@stanford.edu](mailto:danfu@stanford.edu)

Website: [www.danfu.org](http://www.danfu.org)

LinkedIn: [www.linkedin.com/in/danfu09/](http://www.linkedin.com/in/danfu09/)

GitHub: [www.github.com/DanFu09](http://www.github.com/DanFu09)

---

## EDUCATION

---

<b>Stanford University</b>	Stanford, CA
PhD in Computer Science	September 2018-present
<b>Harvard University</b>	Cambridge, MA
AB/SM in Computer Science	May 2018
<i>Cum laude</i> , with Highest Honors in Computer Science	

---

## RESEARCH EXPERIENCE

---

<b>Stanford University</b> , <i>Graduate Student Researcher</i>	2018-present
<b>Harvard University</b> , <i>Undergraduate Researcher</i>	2016-2018

---

## INDUSTRY EXPERIENCE

---

<b>Google</b> , <i>Software Engineering Intern</i>	Summer 2016, 2017
<b>Tamr</b> , <i>Field Engineering Intern</i>	Summer 2015
<b>Interactive Intelligence</b> , <i>Software Engineering Intern</i>	Summer 2014
<b>DyKnow</b> , <i>Development Intern</i>	Summer 2013

---

## TEACHING EXPERIENCE

---

<b>Teaching Fellow</b> , <i>CS 152: Programming Languages</i>	Spring 2018
Harvard University	
<b>Teaching Fellow</b> , <i>CS 61: Systems Programming and Machine Organization</i>	Fall 2015, 2016, 2017
Harvard University	
<b>Teaching Assistant</b> , <i>Honors Pre-Calculus</i>	Spring 2014
Park Tudor High School	

---

## HONORS

---

Derek Bok Center Certificate of Distinction in Teaching	Fall 2017, Spring 2018
Presidential Scholar	2014
Siemens Research Competition National Runner-Up	2012

---

## JOURNAL AND CONFERENCE PUBLICATIONS

---

- [3] **Daniel Y. Fu**, Emily S. Wang, Peter M. Krafft, Barbara J. Grosz. Influencing Flock Formation in Low-Density Settings. *International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, 2018.
- [2] Abolhassan Behrouzvaziri, **Daniel Fu**, Patrick Tan, Yeonjoo Yoo, Maria V. Zaretskaia, Daniel E. Rusyniak, Yaroslav I. Molkov, Dmitry V. Zaretsky. Orexinergic Neurotransmission in Temperature Responses to Methamphetamine and Stress: Mathematical Modeling as a Data Assimilation Approach. *PLOS ONE*, May 20, 2015.
- [1] **Daniel Fu**, Patrick Tan, Alexey Kuznetsov, Yaroslav I. Molkov. Chaos and Robustness in a Single Family of Genetic Oscillatory Networks. *PLOS ONE*, March 25, 2014.
- 

## THESES

---

Design of Influencing Agents for Flocking in Low-Density Settings. Harvard College Undergraduate Honors Thesis, 2018.

---

## UNPUBLISHED WORK

---

Peter Kraft, Amos Waterland, **Daniel Y. Fu**, Anitha Gollamudi, Shai Szulanski, Margo Seltzer. Automatic Parallelization of Sequential Programs. Submitted to *SOSP '17*, *ASPLOS '18*. *arXiv:1809.07684*.

Richard Cho, **Daniel Y. Fu**. Verifying Information Confidentiality under Query Optimization in HotCRP. Prepared for *CS 260r, Projects and Close Readings in Software Systems*, 2017.

**Daniel Fu**, Gabriel Guimaraes. Using Compression to Speed up Image Classification in Artificial Neural Networks. Prepared for *CS 222, Algorithms at the end of the Wire*, 2016.

**Daniel Fu**, Ross Rheingans-Yoo. Information-Provenance Clocks. Prepared for *CS 262, Intro to Distributed Computing*, 2016.

Daniel Fu, Ross Rheingans-Yoo. SimpleTimingPwn: Evading Information Flow Analysis via an Extremely Simple Timing Channel. Prepared for CS 263, *Systems Security*, 2015.

---

## SOFTWARE PROJECTS

---

**Ballroom Matchmaker: Automated Partnerships for Ballroom Dancing**

<https://github.com/DanFu09/ballroom-matchmaker>

**Ballroom Music Script for Runthroughs and Rounds**

<https://github.com/DanFu09/ballroom-runthroughs-script>