

Satchel Grant

grantsrb@stanford.edu

Website: <https://grantsrb.github.io/>

Github: <https://github.com/grantsrb>

LinkedIn: <https://www.linkedin.com/in/grantsrb/>

Education

Grant High School (Portland, OR) - High School Diploma (May 2010)

Whitman College (Walla Walla, WA) - BA Chemistry (May 2014)

Oregon State University (Corvallis, OR) - Assorted CS Classes (Jan - Jun 2016)

Oregon Health and Sciences University (Portland, OR) - Assorted AI Classes (Sept - Dec 2018)

Stanford University (Stanford, CA) - Ph.D. Cog. Psy. and CS (Sept 2020 - Present)

Publications

Satchel Grant, Zhengxuan Wu, James L. McClelland, Noah D. Goodman. (*In press*). "Symbolic Variables in Distributed Networks that Count." *CogSci*. 2024.

Niru Maheswaranathan*, Lane T. McIntosh*, Hidenori Tanaka*, Satchel Grant*, David B. Kastner, Josh B. Melander, Aran Nayebi, Luke Brezovec, Julia Wang, Surya Ganguli, Stephen A. Baccus. "The Dynamic Neural Code of the Retina for Natural Scenes." *Neuron*. 2023.

Xuehao Ding, Dongsoo Lee, Satchel Grant, Heike Stein, Lane McIntosh, Niru Maheswaranathan, Stephen Baccus. "A mechanistically interpretable model of the retinal neural code for natural scenes with multiscale adaptive dynamics," *2021 55th Asilomar Conference on Signals, Systems, and Computers*, 2021, pp. 287-291, doi: 10.1109/IEEECONF53345.2021.9723187.

* co-first authorship

Not Quite Publications (see my [website](#) for commentary)

Satchel Grant, Jay McClelland. "Bidirectional Influences of Grounded Quantification and Language in Acquiring Numerical Cognitive Abilities", *Hosted on Github*. 2023. [Access Link](#)

Satchel Grant, Sahil Kulkarni. "Leveraging Pre-Trained Large Language Models for Context Compression." *Stanford CS 324*. 2023. [Access Link](#)

Satchel Grant, Matheus Dias, Sahil Kulkarni. "Spontaneous Decomposition from Grouped Network Pathways." *Stanford CS 231n*. 2022. [Access Link](#)

Satchel Grant, Sahil Kulkarni, Noah Goodman. "Improving Chain of Thought with Chain of Shortcuts." *Hosted on Github*. 2023. [Access Link](#)

Satchel Grant, Jay McClelland. "Recurrent Models of Number as a Cognitive Technology." *Stanford Psychology FYP*. 2022. [Access Link](#)

Satchel Grant. "Language Effects on Exact Equivalence Tasks." *Stanford CS 229*. 2023. [Access Link](#)

Research Grants

[2023 HAI Google Cloud Credits Grant](#) (Stanford, CA)

Professional/Research Experience

[Analytical Connectionism Summer School 2023](#) (Gatsby Computational Neuroscience

Unit, University College London)

Teaching Assistant (*Aug 2023*)

[Stanford PDP Lab](#) (Stanford University)

Ph.D. Candidate (*July 2020 - Present*)

[Stanford Baccus Lab](#) (Stanford University)

Research Professional (*Oct 2018 - July 2020*)

[Methods in Computational Neuroscience](#) (Woods Hole, MA)

Course Coordinator/Teaching Assistant (*July 2019 - August 2019*)

Independent Software Developer

Software Developer (*Aug 2017 - Jan 2019*)

- Completed [EBLI Reading Adventures #1 EBLI Island](#) for Android.
- Completed [EBLI Reading Adventures #2 EBLI Space](#) for Android.
- Completed [EBLI Sight Words Made Easy](#) for Android.

[Oregon State University](#) (Corvallis, OR)

Teaching Assistant (*Mar 2016 - Jun 2016*)

[American Red Cross](#) (Portland, OR)

Lab Technician (*Jun 2015 - Nov 2015*)

[Fred Hutchinson Cancer Research Center](#) (Seattle, WA)

Research Intern (*Jun 2014 - Nov 2014*)

[Whitman College](#) (Walla Walla, WA)

Student Researcher (*Jun 2013 - May 2014*)

Chemistry Tutor (*Aug 2012 - May 2014*)

Food Service Manager (*Sept 2010 - May 2014*)

Community Involvement/Volunteer Experience

[MBCT Seminar Series Organizing Committee](#) (Stanford)

Bi-weekly seminar series on interdisciplinary research in neuroscience (*2023/2024*)

[FriSem Organizing Committee](#) (Stanford)

Weekly seminar series on ongoing cog and neuro research in psychology (*2023/2024*)

Graduate Admissions Committee (Stanford)

Facilitating the process of graduate student recruitment *(2022/2023, 2023/2024)*

Free Geek (Portland, OR)

Computer Assembly and Disassembly *(Aug 2016 - Aug 2017)*

Odd Fellows Old Folks Home (Walla Walla, WA)

Grandparent Adoption Program *(Sept 2012 - May 2014)*

Dougy Center (Portland, OR)

Grief Facilitator *(August 2009 - July 2010)*

Extracurriculars

(Unofficial) Sprint/Exercise Club President *(Dec 2023 - Present)*

Whitman College Varsity Soccer *(Jan 2011 - Jun 2012)*

Whitman Badminton Club Vice President *(Jan 2011 - Jun 2013)*