Grusha Prasad

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EDUCATION

Johns Hopkins University, Ph.D. Cognitive Science Advisor: Tal Linzen	2017-Present
Hampshire College, B.A. Cognitive Science Advisor: Joanna Morris	2013-2017
Other certificates: Johns Hopkins University, Teaching Academy Certificate Johns Hopkins University, Teaching Institute Five College Certificate for Cognitive Neuroscience	2021 2020 2017
EMPLOYMENT	
Research Intern, Facebook AI Research Supervisor: Adina Williams	Fall 2020
Lab manager, Psycholinguistics lab at Hampshire College Supervisor: Joanna Morris	2014-2017
Research assistant, Linguistics department at UMass Amherst Supervisor: Brian Dillon	2016-2017
Summer intern, Center for Language Science at Penn State University Supervisor: Giuli Dussias	Summer 2016

PEER-REVIEWED JOURNAL PAPERS

Grusha Prasad & Tal Linzen. Rapid syntactic adaptation in self-paced reading: detectable, but only with many participants (2021). *Journal of Experimental Psychology: Learning, Memory and Cognition.*

PEER-REVIEWED PROCEEDINGS PAPERS

Shauli Ravfogel^{*}, **Grusha Prasad**^{*}, Tal Linzen & Yoav Goldberg (2021). Counterfactual Interventions Reveal the Causal Effect of Relative Clause Representations on Agreement Prediction *Proceedings of the 25th Conference on Computational Natural Language Learning (CoNLL)*. [arxiv]. ^{*}equal contribution.

Grusha Prasad, Yixin Nie, Mohit Bansal, Robin Jia, Douwe Kiela & Adina Williams (2021). To what extent do human explanations of model behavior align with actual model behavior? *Proceedings of the 4th Workshop on the Analysis and Interpretation of Neural Networks for Natural Language Processing (BlackBox NLP)* [arxiv].

Douwe Kiela, Max Bartolo, Yixin Nie, Divyansh Kaushik, Atticus Geiger, Zhengxuan Wu, Bertie Vidgen, **Grusha Prasad**, Amanpreet Singh, Pratik Ringshia, Zhiyi Ma, Tristan Thrush, Sebastian Riedel, Zeerak Waseem, Pontus Stenetorp, Robin Jia, Mohit Bansal, Christopher Potts, Adina Williams. Dynabench: Rethinking Benchmarking in NLP. *Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* [paper]

Grusha Prasad, Marten van Schijndel & Tal Linzen (2019). Using priming to uncover the organization of syntactic representations in neural language models. *Proceedings of the 23rd Conference on Computational Natural Language Learning (CoNLL)*. [paper] Honorable mention for Best Paper Award for Research Inspired by Human Language Learning and Processing

PEER-REVIEWED CONFERENCE PRESENTATIONS

2020:

Grusha Prasad, & Tal Linzen. Rapid syntactic adaptation in SPR: detectable, but requires many participants. **Oral Presentation.** 33nd Annual CUNY Conference on Human Sentence Processing, Virtual Conference, March 19. [slides]

2019:

Grusha Prasad and Tal Linzen. How much harder are hard garden-path sentences than easy ones? **Poster Presentation.** 41st Annual Conference of the Cognitive Science Society, Montreal, July 24-27 [poster] [OSF]

Grusha Prasad, Marten van Schijndel & Tal Linzen. Using syntactic priming to investigate how recurrent neural networks represent syntax **Poster Presentation**. 32nd Annual CUNY Conference on Human Sentence Processing, Boulder, Colorado, March 15. [poster]

Grusha Prasad, & Tal Linzen. Reassessing the evidence for syntactic adaptation from self-paced reading studies. **Poster Presentation**. 32nd Annual CUNY Conference on Human Sentence Processing, Boulder, Colorado, March 15. [poster]

2018:

Grusha Prasad, Joanna Morris & Mark Feinstein. The P600 for singular 'they': How the brain reacts when John decides to treat themselves to sushi. **Poster Presentation**, *31st Annual CUNY Conference on Human Sentence Processing*, Davis, California, March 15. [poster]

2017:

Grusha Prasad, Joanna Morris & Mark Feinstein. The P600 for singular 'they': How the brain reacts when John decides to treat themselves to sushi. **Oral Presentation**, 58th Annual Meeting of the Psychonomic Society, Vancouver, British Columbia, November 9-12. [slides]

INVITED TALKS

The P600 for singular 'they': How the brain reacts when John decides to treat themselves to sushi.

University of Massachusetts, Amherst. October 15 2021.

How do neural networks encode and use syntactic information? Complang, Massachusetts Institute of Technology (Virtual talk). April 7 2021.

Using priming to understand how humans and neural networks represent sentences Cognitive and Behavioural Neuroscience Colloquium, George Mason University (Virtual talk). February 17 2021.

Fantastic garden path effects and how to find and model them University of Potsdam, Germany (Virtual talk). March 13 2020.

TEACHING

Classes at Johns Hopkins University : Instructor: Playing with Data: an Experimenter's Guide to Hypotheses Evidence	
and the Truth	2021
Teaching Assistant: Bayesian Inference	2020
Teaching Assistant: Introduction to computational cognitive science	2019
Teaching Assistant: Cognitive Neuropsychology of Visual Perception	2019
Teaching Assistant: Cognitive Development	2018
Teaching Assistant: Mind, Brain and Experience.	2018
Classes at Hampshire College:	
Co-instructor: What does a theory of meaning look like?	2016
Teaching Assistant: Electrophysiology Methods and Data Analysis	2016
Teaching Assistant: Words, Faces and Other Minds	2015
Teaching Assistant: Brain and Cognition II: Electrophysiological methodologies	2015
Guest lectures:	
Language Acquisition (Polly High School class: AP Psychology)	2020
Syntactic Priming (JHU Class: Computational Psycholinguistics)	2020
Syntactic Priming (JHU Class: Computational Psycholinguistics)	2019
Language Acquisition (JHU Class: Cognitive Development)	2019
Other:	
Workshops on Cognitive neuroscience and Experimental Design	2015
Co-designed and ran multiple session workshop for 8th graders at Hilltown Charter Schoo Hampton, MA) and Oakridge International School (Bengaluru, India)	l (East

MENTORING

Undergraduate RAs Hunter Paulison, Daniela Torres, Meg Obata, Claire Joyce, Brody Silva, Nicholas Douglass

Women in Science and Engineering (WISE) Program 2018 Co-mentored a high school student on an eye-tracking project

NON PEER-REVIEWED MANUSCRIPTS

Grusha Prasad & Joanna Morris. The P600 for singular 'they': How the brain reacts when John decides to treat themselves to sushi. [PsyArXiv] [OSF]

AWARDS AND HONORS

Johns Hopkins University, Owen's Scholar Award Fellowship for outstanding incoming PhD students in the natural sciences	2017-2020
Hampshire College, Ingenuity Award 2017 An award to recognize students who work in creative and effective ways to improve the Hampshire community	
Hampshire College, Ray and Lorna Coppinger Endowment Grants Research grant for projects in cognitive or biological sciences	2016
Hampshire College, Cognitive Science Research grant for projects in cognitive science	2016
Hampshire College program in Culture, Brain and Development2016, 2015Research grant for projects incorporating psychobiological and sociocultural perspectives	
Hampshire College program in Culture, Brain and Development 2 Summer placement grant for projects incorporating psychobiological and sociocultural period 2	2016, 2015 erspectives
Hampshire College, Ethics and Common Good grant Grant to support student projects that address a common good issue/ community nee	2015 ed
Hampshire College, Earl Ubell Science Information Award Grant to support student projects that seek to make the scientific method or scientific accessible to non-scientists	2015 fic findings
Hampshire College, Bell Ringer Merit Scholarship Most prestigious merit scholarship awarded to incoming students	2015

SKILLS

Programming languages

Python, PyTorch, R, MATLAB, Java, Clojure

Natural languages

Proficient in English, Telugu, Kannada. Conversational Hindi. Basic French.

Stimulus presentation software

IbexFarm, PCIbex, PsychoPy, OpenSesame, E-prime

SERVICE

Journal Reviewing:	
Glossa Psycholinguistics	2021
Transactions of the Association for Computational Linguistics (co-reviewer)	2021
Cortex	2021
Language	2020
Cortex	2020
Language Cognition and Neuroscience (co-reviewer)	2019
Conference Reviewing:	
The SIGNLL Conference on Computational Natural Language Learning	2021
European Chapter of the Association for Computational Linguistics	2020
Johns Hopkins University:	
Departmental Representative for the Graduate Representative Organization	2017-2021
Hampshire College:	
Student Representative to the School of Cognitive Science	2016-2017
Culture, Brain and Development Student Group Leader	2015-2017

PROFESSIONAL MEMBERSHIPS

American Psychological Association	2021
Association for Computational Linguistics	2019
Psychonomic Society	$2017,\!2018$