Polyphony J. Bruna

Website: pjbruna.github.io | Email: pbruna@ucmerced.edu

EDUCATION

University of California, Merced, CA Doctor of Philosophy, Cognitive and Information Sciences Expected 2027

Vassar College, Poughkeepsie, NY Bachelor of Arts, Cognitive Science and Philosophy

2022

Minor, Japanese

- Overall GPA: 3.99/4.00

- Honors: Phi Beta Kappa, Sigma Xi, Psi Chi, cum laude generali et cum laude in materia subiecta

RESEARCH INTERESTS

Computational Modeling; Cognitive Alignment; Language Evolution and Change; AI; Translation

PUBLICATIONS

- **Bruna, P. J.**, Andrews, J., & de Leeuw, J. R. (2023). *Psychophysical Adaptive Procedure: Developing a New, Generalizable Method* [Manuscript in preparation]. Department of Cognitive Science, Vassar College.
- Andrews, J. & **Bruna**, **P. J.** (2023). *Probing the Methodology and Interpretation of Learned Categorical Perception Research* [Manuscript in preparation]. Department of Cognitive Science, Vassar College.
- **Bruna, P. J.** (2021). Exploring Semantic Relatedness Judgments in the Structure of a Semantic Network [Unpublished manuscript]. Department of Cognitive Science, Vassar College, https://osf.io/sj7tg/
- de Leeuw, J. R., Andrews, J., Barney, L., Bigler, M., **Bruna, P. J.**, Chen, Y., Cherry, R., Dowie, D. R., Forbes, E., Haffey, B., Hu, X., Jaklitsch, M., Leopold, N., Lewis, C., MacDonald, D., McShaffrey, C., Nakayama, K., Olstad, W., Peng, R., ... Zhang, L. (2021). Words May Jump-Start Meaning More Than Vision: A Non-Replication of Early ERP Effects in Boutonnet and Lupyan (2015). *Collabra: Psychology, 7*(1). https://doi.org/10.1525/collabra.29763
- **Bruna, P. J.** (2019). A Review of Bryan W. Van Norden, Taking Back Philosophy. *Vassar College Journal of Philosophy*, *6*, 73–75.

https://www.vassar.edu/sites/default/files/2021-08/philosophy-journal-spring-2019.pdf

TALKS AND POSTER PRESENTATIONS

- Bigler, M. & **Bruna, P. J.** (2020, Sep 30). *Probing the Methodology and Interpretation of Learned Categorical Perception Research* [Poster presentation]. 35th Annual URSI Symposium, Vassar College, Poughkeepsie, NY, United States. https://www.vassar.edu/sites/default/files/2021-06/URSI 11 andrewsj mbigler pbruna.pdf
- **Bruna, P. J.** (2020). *Hearing That It Is Silent: How to Hallucinate a Non-Perception* [Paper talk]. 10th Annual Mid-Hudson Valley Undergraduate Philosophy Conference, Marist College, Poughkeepsie, NY, United States. (Canceled due to COVID-19)

Bruna, P. J. & Marks, P. (2019, Sep 25). *Psychophysical Adaptive Procedure: Developing a New, Generalizable Method* [Poster presentation]. 34th Annual URSI Symposium, Vassar College, Poughkeepsie, NY, United States. https://osf.io/4ahd9/?view_only=0b55b01f9eea4ed1a0402589087a0a71

PROFESSIONAL MEMBERSHIPS

Phi Beta Kappa	Since 2022		
Sigma Xi, The Scientific Research Honor Society	Since 2022		
Psi Chi, International Honor Society in Psychology	Since 2021		
HONORS AND AWARDS			
Graduate Fellowship Incentive Award – \$200 University of California, Merced	2022		
The Jamie Nisse Greenberg Philosophy Prize – \$900 Vassar College	2022		
Best Technical Write-Up Mid-Hudson IEEE Undergraduate Capstone Project Awards	2022		
SCHOLARSHIPS, FELLOWSHIPS, AND GRANTS			
Graduate Division Recruiting Fellowship – \$45,000 + tuition <i>University of California, Merced</i>	2022 – 2023		
*Foreign Language and Area Studies (FLAS) Fellowship – \$22,500 + tuition <i>U.S. Department of Education</i>	2022 – 2023		
Adolph Sutro Fellowship – \$10,000 Vassar College	2022		
Critical Language Scholarship for advanced Japanese, alternate U.S. Department of State; American Councils for International Education	2022		
Frances Lehman Loeb 1928 Scholarship – \$44,000 Vassar College	2021 – 2022		
Research Award – \$4,000 Vassar College	2021		
Frances Lehman Loeb 1928 Scholarship – \$44,000 Vassar College	2020 – 2021		
Undergraduate Research Summer Institute (URSI) – \$5,000 Vassar College	2020		

^{*} Awarded, but declined

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Frances Lehma Vassar College	an Loeb 1928 Scholarship – \$42,500	2019 – 2020	
Undergraduate Vassar College	Research Summer Institute (URSI) – \$5,000	2019	
1956 Memoria Vassar College	ll Scholarship – \$42,000	2018 – 2019	
	RESEARCH AND TEACHING EXPERIENCE		
Teaching Assis Vassar College	stant, Cognitive Science Department	2021 – 2022	
Research Men Vassar College	tor, Undergraduate Research Summer Institute	2021	
Research Assis Vassar College	stant, Cognitive Science Department	2018 – 2021	
	INTERNSHIPS		
Intern, Cogniti Vassar College	ve Science Department	2021 – 2022	
Research Fello Vassar College	ww, Undergraduate Research Summer Institute	2019, 2020	
	WORKSHOPS AND TRAINING PROGRAMS		
Key Connections The Phi Beta Kappa Society		2022	
	nmer Program in Philosophy of Science and Specialized Sciences Pittsburgh; Carnegie Mellon University	2020	
	SKILLS		
Technical:	Technical: Neural Networks, Agent-Based Modeling, Bayesian Statistics, Behavior-Based Robotics		
Computer:	R, JavaScript, jsPsych, Python, C/C++, PyTorch, TensorFlow		
Equipment:	High-Performance Computing, Geodesic EEG System, Netstation 5.4, I	KISS IDE	

English (native), Japanese (advanced)

Language: