## Paula P. Brooks

## Doctoral Candidate, Princeton Neuroscience Institute

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## 29/20

Education	<b>Princeton University</b> , Ph.D., Neuroscience, 2017 – present <i>Advisor:</i> Professor Kenneth Norman <i>Thesis Committee:</i> Professors Kenneth Norman, Uri Hasson, Yael Niv, & Maureen Ritchey (Boston College)
	Princeton University, M.A., Neuroscience, September 2019
	<b>Princeton University</b> , A.B., Psychology, June 2015 Certificate in Neuroscience
Research Experience	<b>Visiting Scholar</b> , 2019 – present Memory Modulation Lab, Boston College
	<b>Graduate Researcher</b> , 2017 – present Princeton Computational Memory Lab, Princeton University
	<b>Laboratory Manager</b> , 2016 – 2017 Princeton Computational Memory Lab, Princeton University
	<b>Research Assistant</b> , 2015 – 2017 Princeton Computational Memory Lab, Princeton University
	<b>Undergraduate Researcher</b> , 2014 – 2015 Princeton Computational Memory Lab, Princeton University
	<b>Undergraduate Researcher</b> , 2013 Developmental Psychology Lab, Princeton University
Research Grants	NIH Diversity (D-SPAN) F99 Award   NINDS, 2020 – 2022 The role of memory reactivation in emotional memory suppression and regulation F99 NS120647 — \$93,040 total direct costs approved Mechanism provides for 2 yrs of predoctoral and 4 yrs of postdoctoral funding, (total: \$445,000)
Pre-Prints	Kumar, M., Anderson, M.J., Antony, J.W., Baldassano C., <b>Brooks, P.P.</b> , Cai, M.B., Chen, P.H.C., Ellis, C.T., Henselman-Petrusek, G., Huberdeau, D., Hutchinson, J.B., Li, P.Y., Lu, Q., Manning, J.R., Mennen, A.C., Nastase, S.A., Hugo, R., Schapiro, A.C., Schuck, N.W., Shvartsman, M., Sundaram, N., Suo, D., Turek, J.S., Vo, V.A., Wallace, G., Wang, Y., Zhang, H., Zhu, X., Capota, M., Cohen, J.D., Hasson, U., Li, K., Ramadge, P.J., Turk-Browne, N.B., Willke, T.L. & Norman, K.A. (2020). BrainIAK: The Brain Imaging Analysis Kit <i>OSF Preprints</i> .
PUBLICATIONS	Wang, B., Antony, J.W., Lurie, S., <b>Brooks, P.P.</b> , Paller, K., & Norman, K.A. (2019). Targeted memory reactivation during sleep elicits neural signals related to learning content. <i>Journal of Neuroscience</i> .

	Antony, J., Cheng, L.Y., <b>Brooks, P.P.</b> , Paller, K., & Norman, K.A. (2018). Competitive learning modulates memory consolidation during sleep. <i>Neurobiology of Learning and Memory</i> .
	Rafidi, N.S., Hulbert, J.C., <b>Brooks, P.P.</b> , & Norman, K.A. (2018). Reductions in retrieval competition predict the benefit of repeated testing. <i>Scientific Reports</i> .
	Antony, J., Piloto, L., Wang, M., <b>Pacheco, P.</b> , Norman, K.A., & Paller, K. (2018). Sleep spindle refractoriness segregates periods of memory reactivation. <i>Current Biology</i> .
Fellowships & Honors	<b>Harvey Fellowship</b> (\$32,000), 2020 – 2022 Mustard Seed Foundation
	<b>Diversity Supplement</b> (\$107,805), 2020 – 2021 National Institutes of Health
	<b>Neuroscience Scholars Program Fellow</b> (\$6,000), 2019 – 2021 Society for Neuroscience
	<b>Neuroscience Scholars Program Associate</b> (\$1,000), 2018 – 2019 Society for Neuroscience
	<b>Summer Fellowship</b> (\$3,000), 2014 Program on U.S. Health Policy, the Keller Center for Innovation in Engineering Education, and Princeton Internships in Civic Service
Open Science	<b>Brooks, P.P.</b> , McDevitt, E.A., Mennen, A.C., Visconti di Oleggio Castello, M., & Nastase, S.A. (2020). Princeton Handbook for Reproducible Neuroimaging (Version v0.1.0). Zenodo. http://doi.org/10.5281/zenodo.3688789
OPEN DATASETS	<b>OpenNeuro ds002345</b> Nastase, S. A., Liu, YF., Hillman, H., Zadbood, A., Hasenfratz, L., Keshavarzian, N., Chen, J., Honey, C. J., Yeshurun, Y., Regev, M., Nguyen, M., Chang, C. H. C., Baldassano, C. B., Lositsky, O., Simony, E., Chow, M. A., Leong, Y. C., <b>Brooks, P. P.</b> , Micciche, E., Choe, G., Goldstein, A., Halchenko, Y. O., Norman, K. A., & Hasson, U. Narratives: fMRI data for evaluating models of naturalistic language comprehension.
	Nastase, S.A., Mennen, A.C., <b>Brooks, P.P.</b> , & McDevitt, E.A. (2020). Princeton Handbook for Reproducible Neuroimaging: Sample Data (Versions 1.0.0) [Data set]. Zenodo. http://doi.org/10.5281/zenodo.3677090
Conference Presentations	<b>Brooks, P.P.</b> , Hulbert, J., Lormestoire, A., Ritchey, M., & Norman, K.A. (2019). Investigating the impact of memory reactivation on the successful forgetting of negative memories. Poster presented at the Society for Neuroscience annual meeting, Chicago, IL.
	Antony, J.W., Piloto, L.R., Wang, M., <b>Brooks, P.P.</b> , Paller, K.A., & Norman, K.A. (2018). Sleep spindle refractoriness segregates periods of memory reactivation. Poster will be presented at the Society for Neuroscience annual meeting, San Diego, CA.

	Antony, J.W., Cheng, L.Y., <b>Pacheco, P.</b> , Wang, B., Paller, K.A. & Norman, K.A. (2017). Competition between items during learning influences targeted memory reactivation during sleep. Poster presented at the Society for Neuroscience annual meeting, Washington, DC.
	Wang, B., Antony, J.W., Lurie, S., <b>Pacheco, P.</b> , Paller, K.A. & Norman, K.A. (2017). Detecting content-specific patterns using targeted memory reactivation. Poster presented at the Society for Neuroscience annual meeting, Washington, DC.
	Antony, J.W., Piloto, L.R., Wang, B., Wang, M., <b>Pacheco, P.</b> , Paller, K.A., & Norman, K.A. (2017). Mechanisms of targeted memory reactivation during sleep: The role of pre- and post-cue spindles. Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco, CA.
	Cheng, L.Y., Antony, J.W., <b>Pacheco, P.</b> , Norman, K.A. & Paller, K.A. (2017). Sensory stimulation during sleep to selectively strengthen memories: Sounds can be arbitrarily associated with visuospatial learning. Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco, CA.
	Antony, J. W., Piloto, L. R., Cheng, L., <b>Pacheco, P.</b> , Paller, K. A., & Norman, K. A. (2016). Competition between items during learning influences targeted memory reactivation during sleep. Poster presented at the International Conference on Memory, Budapest, Hungary.
	<b>Pacheco, P.</b> (2014). Rough sleepers: Who they are and what we can learn from them. Talk given at the Center for Health and Wellbeing Student Research Symposium, Princeton, NJ.
Teaching & Mentoring	Mentor, 2019 – present Princeton Computational Memory Lab, Princeton University • Arlene Lormestoire († research assistant)
	<b>Graduate Student Mentor</b> , 2019 – 2020 McNair Scholars Program, Boston College
	<b>Guest Instructor for MATLAB Summer Workshop</b> , 2019 Princeton Neuroscience Institute Summer Internship Program, Princeton University
	<ul> <li>Assistant-in-Instruction, 2018 – 2019</li> <li>Neuroscience Department, Princeton University</li> <li>NEU 200: Functional Neuroanatomy</li> <li>NEU 202: Introduction to Cognitive Neuroscience</li> <li>Guest Lecturer: <i>The Lobotomist and Ethics in Human Subjects Research</i></li> </ul>
	<b>Resident Graduate Student</b> , 2018 – 2019 Forbes College, Princeton University
	<b>Graduate Fellow</b> , 2017 – 2018 Scholars Institute Fellows Program, Princeton University
	<b>Panelist</b> , 2017, 2018 HISPA Latinos in College Conference, Princeton University
	<b>Mentor</b> , 2016 – 2017 Princeton Computational Memory Lab, Princeton University

Princeton Computational Memory Lab, Princeton University

	<ul> <li>Erin Chatman (* visiting student)</li> <li>Jesse McDonough**</li> <li>Margaret Wang**</li> <li>Sarah Lurie (** Princeton senior)</li> <li>Gianna Perez*</li> </ul>
	<b>Co-Project Coordinator</b> , 2012 – 2015 Princeton One-on-One Mentoring, Princeton University
SCIENCE COMMUNICATION	<b>"Surprising events create event boundaries in memories"</b> , Princeton Insights <b>"Beyond the Science: 4 Lessons Learned from the Kanwisher Award Talk"</b> , Guest post for the 2020 Cognitive Neuroscience Society annual conference
PROFESSIONAL ACTIVITIES & SERVICE	<b>Co-Organizer</b> , 2019, 2020 Brainhack Princeton Conference
	<b>Participant</b> , 2020 Communicating Science Conference – Michigan (ComSciCon-MI)
	<b>Reviewer</b> , 2020 – present Association for Psychological Science Student Caucus competitions
	<b>Co-Student Organizer</b> , 2019 Manhattan Area Memory
PROFESSIONAL AFFILIATIONS	Cognitive Neuroscience Society, 2020 – present
	Association for Psychological Science, 2018 – present
	Society for Neuroscience, 2016 – present
Skills & Special Knowledge	<ul><li>Languages</li><li>Spanish: fluent (speaking, reading, writing)</li></ul>
	<ul> <li>Programming</li> <li>MATLAB (Psychtoolbox-3, EEGlab, sleepSMG)</li> <li>Python (Psychopy)</li> <li>R</li> <li>Inquisit</li> <li>HTML/CSS</li> </ul>
	Certifications <ul> <li>Human Subjects Protection (CITI)</li> </ul>

- EEG
- MRI Level 1 and Level 2

Last Updated: December 28, 2020