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PROFESSIONAL POSITIONS

2018-current Associate Professor, Department of Psychology, Rutgers University
2015-current Affiliated Member, Rutgers University Center for Cognitive Science
2014-current Associate Member, Institute for Health, Health Care Policy, and Aging Research, Rutgers
2012-2018 Assistant Professor, Department of Psychology, Rutgers University
2011-2012 Postdoctoral fellow, Syracuse University

EDUCATION

2011 Ph.D. Psychology, University of California, Irvine
2009 M.A. Psychology, University of California, Irvine
2006 B.A. Psychology, University of California, Irvine - Summa cum Laude

AWARDS AND GRANTS

AWARDS

2016 Recipient, Association for Psychological Science Rising Star Award
2015 Recipient, Women in Cognitive Science Mentoring Award
2012 Recipient, Women in Cognitive Science Networking Travel Award
Recipient, Society for Mathematical Psychology Post Doc Travel Award
2011 Recipient, Society for Mathematical Psychology Post Doc Travel Award
2010 Recipient, Graduate Dean's Dissertation Fellowship
Recipient, Jean-Claude Falmagne Research Award
2009 Recipient, John I. Yellott Scholar Award
2008 Recipient, *Cognitive Science* best paper on modeling higher-level cognition

GRANTS

Submitted NRT-FW-HTF: *Socially Cognizant Robotics for a Technology Enhanced Society*.
\$3,000,000. Role: Senior Personnel. PI: Kristin Dana. (9/1/2019 - 8/31/2024)

External - Active

2019-2022 NSF-HDBE: *Protecting Soft Targets against Lone Actor Attacks using Games and Game Theory*. \$325,000. Award Id: 1901721. Role: Co-PI
2016-2020 NSF REU supplement to NSF CAREER award. \$18,567. Award Id: 1453276. Role: PI
2015-2020 NSF CAREER: *Applications of Bayesian Inference to Human Memory and Decision Making*. \$440,000. Award Id: 1453276. Role: PI

External - Completed

2015-2019 NSF: *Bayesian Modeling of Situated Communicative Goals*. \$ 499,945. Award Id: 1526723. Role: Co-PI
2013-2014 Rockefeller Philanthropy Advisors. *Priors and Memory Laboratory*. \$3,000. Role: PI

Internal - Active

2020-2021 Brain Health Institute/Center for Computational Cognitive Neuro-Psychiatry (CCNP) Pilot Grant. *Evaluating the influence of prior expectations on episodic memory in patients with Schizophrenia*. \$20,000. Role: PI

Internal - Completed

2013-2014 Rutgers University Research Council Grant. *Updating Beliefs over Time*. \$3,000. Role: PI

CONSULTING ACTIVITIES

2016-2018 NIEHS grant: *Impact of prenatal insecticide exposure on neurodevelopmental trajectories in a Thai birth cohort: building exposure science and neurodevelopmental research capacity in Thailand*. PI: Nancy Fiedler, Rutgers School of Public Health

PUBLICATIONS

JOURNAL ARTICLES

(* indicates undergraduate student, underline indicates graduate student)

Submitted

Sommer, J., **Hemmer, P.** & Musolino, J. (*in review*). Are Supernatural Concepts a Cognitive Epiphenomenon? Some Puzzles and New Theoretical Directions.

Altay, A., **Hemmer, P.** & Gursoy, M. (*in review*). Behavior Associations in Lone Actor Terrorists.

Macias, C., Persaud, K., **Hemmer, P.**, & Bonawitz, E. (*in revision*). Evaluating Episodic Memory Error in Adults and Preschoolers: Category Expectations Influence Episodic Memory for Color.

Alikhani, M., Persaud, K., Pei, K.*, McMahan, B., **Hemmer, P.**, & Stone, M. (*in revision*). The Influence of Alternative Terms on Speakers' Choice of Vague Description.

Published

Wang, L., **Hemmer, P.**, & Leslie, A. (2019). A Bayesian framework for the development of belief-desire reasoning: Estimating inhibitory power in low- and high-demand false belief. *Psychonomic Bulletin & Review*, 26, 205-221. doi: 10.3758/s13423-018-1507-9

Cox, G. E., **Hemmer, P.**, Aue, W. R., & Criss, A. H. (2018). Information and processes underlying semantic and episodic memory across tasks, items, and individuals. *Journal of Experimental Psychology: General*, 147, 545-590. doi: 10.1037/xge0000407

Persaud, K., **Hemmer, P.**, Kidd, C. & Piantadosi, S. (2017). Seeing colors: Cultural and environmental influences on episodic memory. *i-Perception*, 1-5. doi: 10.1177/2041669517750161

Trueblood, J. S. & **Hemmer, P.** (2016). The Generalized Quantum Episodic Memory Model. *Cognitive Science*, 1-37. doi: 10.1111/cogs.12460

Persaud, K. & **Hemmer, P.** (2016). The Dynamics of Fidelity over the Time Course of Long-Term Memory. *Cognitive Psychology*, 88, 1-21.

Hemmer, P., Tauber, S., & Steyvers, M. (2015). Moving beyond qualitative evaluations of Bayesian models of cognition. *Psychonomic Bulletin & Review*, 22, 614-628.

Hemmer, P. & Persaud, K. (2014). Interactions between Categorical Knowledge and Episodic Memory across Domains. *Frontiers in Psychology*, 5:584. doi: 10.3389/fpsyg.2014.00584.

Hemmer, P. & Criss, A. (2013). The Shape of Things to Come: Evaluating Word Frequency as a Continuous Variable in Recognition Memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 39, 1947-52. doi: 10.1037/a0033744

Hemmer, P. & Steyvers, M. (2009a). Integrating Episodic Memories and Prior Knowledge at Multiple Levels of Abstraction. *Psychonomic Bulletin & Review*, 16, 80-87.

Hemmer, P. & Steyvers, M. (2009b). A Bayesian Account of Reconstructive Memory. *Topics in Cognitive Science, 1*, 189-202.

Brown, S.D., Steyvers, M., & **Hemmer, P.** (2007) Modeling Experimentally Induced Strategy Shifts. *Psychological Science, 18*, 40-45.

BOOK CHAPTERS

Steyvers, M. & **Hemmer, P.** (2012). Reconstruction from Memory in Naturalistic Environments. In Brian H. Ross (Ed), *The Psychology of Learning and Motivation*, (126-144). Elsevier Publishing

REFEREED CONFERENCE PROCEEDINGS

(Peer reviewed, ~5000 word papers, published in conference proceedings)

Nur Poyraz, E. Hemmer, P., & Leslie, A. (in review). *Can Changes in Inhibitory Control Explain Child-Level Theory of Mind Development?*

Persaud, K. Macias, C., **Hemmer, P.**, & Bonawitz, E. (2019). Age-related differences in the influence of category expectations on episodic memory in early childhood. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.

Kleinschmidt, D. F., & **Hemmer, P.** (2019). A Bayesian model of memory in a multi-context environment. In A. Goel, C. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.

Robbins, T. & **Hemmer, P.** (2018). Lay Understanding of Illness Probability Distributions. In T.T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 2346-2351). Austin, TX: Cognitive Science Society.

Wall, D.G., Chapman, G., & **Hemmer, P.** (2018). Risky Intertemporal Choice with Multiple Outcomes and Individual Differences. In T.T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 2645-2650). Austin, TX: Cognitive Science Society.

Robbins, T. & **Hemmer, P.** (2017). Explicit predictions for illness statistics. In Gunzelmann, G., Howes, A., Tenbrink, T., & Davelaar, E. (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. London, UK: Cognitive Science Society, (pp. 2998-3003).

Persaud, K., McMahan, B., Alikhani, M., Pei, K.*, **Hemmer, P.**, & Stone, M. (2017). When is Likely Unlikely: Investigating the Variability of Vagueness. In Gunzelmann, G., Howes, A., Tenbrink, T., & Davelaar, E. (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. London, UK: Cognitive Science Society, (pp. 2876-2881).

Ahluwalia, A.*, **Hemmer, P.**, & Persaud, K. (2017). The influence of pop-culture on misattribution of memory. In Gunzelmann, G., Howes, A., Tenbrink, T., & Davelaar, E. (Eds.), *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. London, UK: Cognitive Science Society, (pp. 1513-1518).

Hemmer, P., Persaud, K., Kidd, C., & Piantadosi, S. (2015). Inferring the Tsimane's use of color categories from recognition memory. In Noelle, D. C., Dale, R., Warlaumont, A. S., Yoshimi, J., Matlock, T., Jennings, C. D., & Maglio, P. P. (Eds.), *Proceedings of the 37th Annual Meeting of the Cognitive Science Society* (pp 896-901). Austin, TX: Cognitive Science Society.

<https://mindmodeling.org/cogsci2015/papers/0161/paper0161.pdf>

Macias, C.*, Yung, A.*, **Hemmer, P.**, & Kidd, C. (2015). Memory strategically encodes externally unavailable information. In Noelle, D. C., Dale, R., Warlaumont, A. S., Yoshimi, J., Matlock, T., Jennings, C. D., & Maglio, P. P. (Eds.), *Proceedings of the 37th Annual Meeting of the Cognitive Science Society* (pp 1458-1463). Austin, TX: Cognitive Science Society.

<https://mindmodeling.org/cogsci2015/papers/0255/paper0255.pdf>

Persaud, K. & **Hemmer, P.** (2014). The influence of knowledge and expectations for color on episodic memory. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp 1162-1167). Quebec City, CA: Cognitive Science Society. <https://mindmodeling.org/cogsci2014/papers/206/>

Hemmer, P., Persaud, K., Venaglia, R.*, & DeAngelis, J.* (2014). What's your source: Evaluating the effects of context in episodic memory for objects in natural scenes. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp 2765-2770). Quebec City, CA: Cognitive Science Society. <https://mindmodeling.org/cogsci2014/papers/478/>

Robbins, T., **Hemmer, P.**, & Tang, Y.* (2014). Bayesian Updating: A Framework for Understanding Medical Decision Making. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp1299-1304). Quebec City, CA: Cognitive Science Society. <https://mindmodeling.org/cogsci2014/papers/229/>

Hemmer, P., Steyvers, M., & Miller, B. (2010). The Wisdom of Crowds with Informative Priors. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp 1130-1135). Austin, TX: Cognitive Science Society. <http://www.cognitivesciencesociety.org/cogsci-archival-conference-information/>

Hemmer, P. & Steyvers, M. (2009c). Integrating Episodic and Semantic Information in Memory for Natural Scenes. In N.A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31th Annual Conference of the Cognitive Science Society* (pp. 1557-1562). Austin, TX: Cognitive Science Society.

Steyvers, M., Lee, M.D., Miller, B., & **Hemmer, P.** (2009d). The Wisdom of Crowds in the Recollection of Order Information. In J. Lafferty, C. Williams (Eds.) *Advances in Neural Information Processing Systems, 23*, (pp 1785-1793). MIT Press.

Miller, B., **Hemmer, P.** Steyvers, M. & Lee, M.D. (2009e) The wisdom of crowds in rank ordering tasks. *Proceedings of the 9th International Conference of Cognitive Modeling*.

Hemmer, P. & Steyvers, M. (2008). A Bayesian Account of Reconstructive Memory. In V. Sloutsky, B. Love, and K. McRae (Eds.) *Proceedings of the 30th Annual Conference of the Cognitive Science Society*. Mahwah, NJ: Lawrence Erlbaum. (pp. 327-332). [Award: Cognitive Science best paper on modeling higher-level cognition]

PUBLISHED ABSTRACTS

Persaud, K. & **Hemmer, P.** (2016). Time Course of Fidelity and Contributing Factors to Long-Term Memory [Abstract]. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin TX: Cognitive Science Society.

Robbins, T. & **Hemmer, P.** (2016). Optimal Predictions in Illness Cognition [Abstract]. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin TX: Cognitive Science Society.

Aue, W., **Hemmer, P.** & Criss, A. (2013). A Bayesian Analysis of Bias in Single Item Recognition for Continuous Word frequency [Abstract]. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (p. 3873). Austin TX: Cognitive Science Society.

Hemmer, P., Shi, J. & Steyvers, M. (2010). The influence of Real World Knowledge on Recall for Height [Abstract]. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (p. 2402). Austin, TX: Cognitive Science Society.

In Revision & Preparation

Hemmer, P., Criss, A.H., Ahluwalia, D.*, & Wall, D. (*in revision*). *Distinctiveness Effects across Memory Tasks*.

Robbins, T. & **Hemmer, P.** (*in revision*). Optimal Predictions in Illness Cognition.

Hemmer, P., Miller, B., & Steyvers, M. (*in revision*). Assessing the Contribution of Prior Knowledge to Memory for Scripted Events.

Robbins, T., Hemmer, P., & Tang, Y.* (*in prep*). Memory and Prediction in Changing Environments.

Persaud, K. & Hemmer, P. (*in prep*). Guess Again: Evaluating the role of prior knowledge and random guessing in long-term memory.

TALKS AND PRESENTATIONS

(* indicates undergraduate student, underline indicates graduate student, unless otherwise indicated by italics first author was the presenter)

PRESENTATIONS AT CONFERENCES AND MEETINGS

- 2019 Persaud, K., Macias, C., Hemmer, P., & Bonawitz, E. (2019). *Group Differences in the Influence of Category Expectations on Episodic Memory in Early Childhood*. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Quebec, Canada
- Saad, L., DeLuna, J.*, Hemmer, P., and Musolino, J. (2019, November). *Investigating the Sense of Agency: How Voice-Control Affects Intentional Binding*. Poster presented at the 60th annual meeting of the Psychonomic Society, Montreal, Canada.
- Sommer, J., Hemmer, P., & Musolino, J. (2019, November). *Are Counterintuitive Concepts A Cognitive Epiphenomenon?* Poster presented the 60th Annual Meeting of the Psychonomic Society, Montreal, Canada.
- Saad, L., DeLuna, J., Rothrock, J., Musolino, J., and Hemmer, P. (2019, July). *Evaluating the Role of Congruence and Contiguity on the Sense of Agency*. Poster presented at the 52nd annual meeting of the Society for Mathematical Psychology, Montreal, Canada.
- Sommer, J., Hemmer, P., & Musolino, J. (2019, July). *Counterintuitive Concepts Across Domains, A Unified Phenomenon?* Poster presented at the 52nd Annual Meeting of the Society for Mathematical Psychology, Montreal, Canada.
- Rothrock, J.*, Saad, L., DeLuna, J.*, Hemmer, P., and Musolino, J. (2019, May). *Investigating the Sense of Agency: Pilot Data on a Standard IB Paradigm*. Poster presented at the 31st annual meeting of the Association for Psychological Science, Washington, D.C.
- Sommer, J., Smith, J.*, Musolino, J., & Hemmer, P. (2019, March). *The memorability of supernatural concepts*. Poster presented at International Convention of Psychological Science, Paris, France
- Robbins, T., & Hemmer, P. (2019, March). *The Effect of Source on Judgment Change for Health Decisions*. Poster presented at International Convention of Psychological Science, Paris, France
- 2018 **Hemmer, P. & Robbins, T.** (2018, November). *Lay Understanding of Illness Probability Distributions*. Talk given at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Sommer, J., Smith, J.*, Hemmer, P., & Musolino, J. (2018, November). *Counterintuitive Concepts Across Domains: A Unified phenomenon?* Poster presented at the 59th annual conference of the Psychonomic Society, New Orleans, LA.
- Robbins, T., & Hemmer, P. (2018, November). *The Effect of Source on Judgment Change for Health Decisions*. Poster presented at the 59th annual conference of the Psychonomic Society, New Orleans, LA.
- Wall, D., Chapman, G., & Hemmer, P. (2018, July). *Risky Intertemporal Choice with Multiple Outcomes and Individual Differences*. Poster given at Annual Conference of the Cognitive Science Society, Madison, Wisconsin, USA.
- Robbins, T. & Hemmer, P. (2018, July). *Lay Understanding of Illness Probability Distributions*. Poster given at Annual Conference of the Cognitive Science Society, Madison, Wisconsin, USA.

- Hemmer, P. & Persaud, K.** (2018, July). *Do expectations for color across culture, environment, and development differentially influence episodic memory?* Talk given at Annual Meeting of the Society for Mathematical Psychology, Madison, WI.
- Alikhani, M., Persaud, K., Pei, K.*, McMahan, B., Hemmer, P., & Stone, M.** (2018, May). *Vague Categories in Communication*. Poster presented at the Annual Perceptual Science Forum. New Brunswick, NJ.
- 2017 **Hemmer, P., Persaud, K., McMahan, B., Alikhani, M., Pei, K.*, & Stone, M.** (2017, November). *When is likely unlikely: Investigating the variability of vagueness*. Talk given at the Annual Meeting of the Psychonomic Society, Vancouver, BC.
- Robbins, T., & Hemmer, P.** (2017, November). *Explicit Predictions for Illness Statistics*. Poster presented at the 58th annual conference of the Psychonomic Society, Vancouver, BC.
- Persaud, K. & Hemmer, P.** (2017, November). *Second Guesses: Assessing the role of prior knowledge and random guessing in long-term memory*. Poster presented at the Annual Meeting of the Psychonomic Society, Vancouver, CA. [Award: Frank Yates Student Travel Award]
- Robbins, T., & Hemmer, P.** (2017, November). *Explicit Predictions for Illness Statistics*. Poster presented at the Society for Mathematical Psychology "Computational Approaches to Memory and Decision Making" Satellite Conference, Vancouver, BC.
- Persaud, K. & Hemmer, P.** (2017, November). *Second Guesses: Assessing the role of prior knowledge and random guessing in long-term memory*. Poster presented at Society for Mathematical Psychology "Computational Approaches to Memory and Decision Making" Satellite Conference. Vancouver, BC.
- Hemmer, P. & Persaud, K.** (2017, July). *Evaluating the role of prior knowledge and random guessing in long-term memory*. Talk given at Annual Meeting of the Society for Mathematical Psychology, Warwick, UK.
- Ahluwalia, D.*, Persaud, K., & Hemmer, P.** (2017, July). *The influence of pop-culture on misattribution of memory*. Poster given at Annual Conference of the Cognitive Science Society, London, UK.
- Persaud, K., McMahan, B., Alikhani, M., Pei, K.*, Hemmer, P., & Stone, M.** (2017, July). *When is Likely Unlikely: Investigating the variability of vagueness*. Poster given at Annual Conference of the Cognitive Science Society, London, UK.
- Robbins, T. & Hemmer, P.** (2017, July). *Explicit Predictions for Illness Statistics*. Poster given at Annual Conference of the Cognitive Science Society, London, UK.
- Ahluwalia, D.*, Persaud, K., & Hemmer, P.** (2017, May). *Pop-culture exerts a strong influence on misattribution of memory*. Poster given at Annual Meeting of Association for Psychological Science, Boston, MA.
- Robbins, T. & Hemmer, P.** (2017, May). *People Hold Explicit Beliefs about Distributional Forms of Illness Durations*. Poster given at Annual Meeting of Association for Psychological Science, Boston, MA.
- 2016 **Hemmer, P. & Robbins, T.** (2016, November). *Optimal Predictions in Illness Cognition*. Talk given at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Criss, A.H., Cox, G., Aue, W., Wilson, J., & Hemmer, P.** (2016, November). *Toward a Comprehensive Account of Memory Across Items, Tasks, and Individuals*. Talk given at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Persaud, K. & Hemmer, P.** (2016, November). *Does Prior Knowledge Influence the Fragility of Associations in Memory?* Poster given at the Annual Meeting of the Psychonomic Society, Boston, MA.

- Wall, D., Hemmer, P. & Chapman, G. (2016, November). *Integrating Time and Risk in Decision Making*. Poster given at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Wall, D., Hemmer, P., Chapman, G. (2016, November). *Integrating Risk and Time*. Poster given at the Annual meeting of the Society for Judgment and Decision Making, Boston, MA.
- Persaud, K. & Hemmer, P. (2016, August). *Time Course of Fidelity and Contributing Factors to Long-Term Memory*. Poster presented at the 38th Annual Conference of the Cognitive Science Society. Philadelphia, PA.
- Robbins, T. & Hemmer, P. (2016, August). *Optimal Predictions in Illness Cognition*. Poster presented at the 38th Annual Conference of the Cognitive Science Society. Philadelphia, PA.
- Hemmer, P. & Persaud, K. (2016, August). *Does Prior Knowledge Influence the Fragility of Associations in Memory?* Talk given at Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.
- Persaud, K., Hemmer, P., & Ahluwalia, D*. (2016, August). *Does Prior Knowledge Influence the Fragility of Associations in Memory?* Poster given at Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.
- Robbins, T., Hemmer, P., Leyble, K., & Spencer, C. *. (2016, August). *Optimal Predictions in Illness Cognition*. Poster given at Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.
- Wall, D. G., Hemmer, P., Chapman, G., & Pei, K*. (2016, August). *Mixing Risk With Time*. Talk given at Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.
- 2015 Hemmer, P. & Persaud, K. (2015, November). *The Time Course of Errors in Long-Term Episodic Memory for Color*. Talk given at the Annual Meeting of the Psychonomic Society, Chicago. IL.
- Robbins, T., Hemmer, P., Leyble, K.*, & Robbins, S.* (2015, November). *Assessing Prior Beliefs and Memory for Symptom and Illness Relationships*. Poster given at the Annual Meeting of the Psychonomic Society, Chicago. IL.
- Hemmer, P., Persaud, K., McGovern, C., & Piantadosi, S. (2015, July). *Shifting priors: Evaluating the cross-cultural influence of color expectations on episodic memory*. Talk given at Annual Conference of the Cognitive Science Society, Pasadena, CA.
- Macias, C.*, Yung, A.*, Hemmer, P. & Kidd, C. (2015, July). *Memory Strategically Encodes Externally Unavailable Information*. Poster given at Annual Conference of the Cognitive Science Society, Pasadena, CA.
- Hemmer, P. & Persaud, K. (2015, July). *Modeling the Time Course of Errors in Long-Term Episodic Memory for Color*. Talk given at Annual Meeting of the Society for Mathematical Psychology, Newport Beach, CA.
- Hemmer, P. & Persaud, K. (2015, July). *The Time Course of Errors in Long-Term Episodic Memory for Color*. Talk given at the Annual Summer Interdisciplinary Conference, Mammoth Lakes, CA.
- Hemmer, P. & Persaud, K. (2015, May). *Episodic Memory across Cultures: From Students in the US to the Tsimane' People of Bolivia*. Invited rebuttal given at the Context and Episodic Memory Symposium, Philadelphia, PA.
- 2014 Hemmer, P., Robbins, T., Persaud, K., & Tang, Y*. (2014, November). *The influence of belief states on memory and prediction*. Poster presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Trueblood, J. & Hemmer, P. (2014, July). *Quantum refrigerators: A quantum model of conjoint recognition in natural scenes*. Talk given at the Annual Meeting of the Society for Mathematical Psychology, Quebec City, Canada.

Persaud, K. & **Hemmer, P.** (2014, July). *Color Preferences and Sampling Behavior in Recall for Color*. Poster given at the Annual Meeting of the Society for Mathematical Psychology, Quebec City, Canada.

Robbins, T. & **Hemmer, P.** (2014, July). *A Bayesian Model of Belief-Updating*. Poster given at the Annual Meeting of the Society for Mathematical Psychology, Quebec City, Canada.

Hemmer P., Persaud K., DeAngelis, J.* & Venaglia, R.* (2014, July). *What's Your Source: Evaluating the Effects of Context in Episodic Memory for Objects in Natural Scenes*. Poster presented at Annual Conference of the Cognitive Science Society, Quebec City, Canada.

Persaud, K. & **Hemmer, P.** (2014, July). *The Influence of Knowledge and Expectations for Color on Episodic Memory*. Talk given at Annual Conference of the Cognitive Science Society, Quebec City, Canada.

Robbins, T., **Hemmer, P.** & Tang, Y.* (2014, July). *Bayesian Updating: A Framework for Understanding Medical Decision Making*. Talk given at Annual Conference of the Cognitive Science Society, Quebec City, Canada.

Hemmer, P. & Persaud, K. (2014, May). *The relative contribution of global versus local context on free recall for natural scenes*. Talk given at the Context and Episodic Memory Symposium, Philadelphia, PA.

Persaud, K. & **Hemmer, P.** (2014, May). *The influence of knowledge and expectations for color on episodic memory*. Poster presented at the 10th Annual Context and Episodic Memory Symposium, Philadelphia, PA.

DeAngelis J.* **Hemmer P.**, Persaud K. & Venaglia, R.* (2014, April). *The Effect of Random Context on Memory*. Poster presented at the National Conference on Undergraduate Research, University of Kentucky, Lexington KY.

2013 Persaud K., **Hemmer P.**, DeAngelis, J.* & Venaglia, R.* (2013, November). *Context effects in episodic memory for natural scenes*. Poster presented at the Annual Meeting of the Psychonomic Society, Toronto, Canada.

Wang, L., **Hemmer, P.** & Leslie, A. M. (2013, October). *Two Bayesian models of the development of belief-desire reasoning*. Talk given at the Biannual Meeting of the Cognitive Development Society.

Venaglia, R.* **Hemmer P.**, Persaud K. & DeAngelis, J.* (2013, August). *The Effect of Context on Recall of Objects in a Natural Scene*. Talk given at the Perceptual Science REU Symposium, Rutgers University, New Brunswick, NJ

Hemmer, P. & Criss, A.H. (2013, August). *Modeling a non-monotonic relationship in single item recognition for continuous word frequency*. Talk given at the Annual Meeting of the Society for Mathematical Psychology, Potsdam, Germany.

Aue, W. R., **Hemmer, P.** & Criss, A. H. (2013, August). *A Bayesian Analysis of Bias in Single Item Recognition for Continuous Word frequency*. Poster presented at Annual Conference of the Cognitive Science Society, Berlin, Germany.

Hemmer, P. & Criss, A.H. (2013, July). *Evaluating Word Frequency as a Continuous Variable in Recognition Memory*. Talk given at the Annual Summer Interdisciplinary Conference, Cortina d'Ampezzo, Italy.

DeAngelis,* J., **Hemmer P.**, Persaud K. & Venaglia, R.* (2013, July). *The Effect of Random Context on Memory*. Poster presented at the Annual Aresty Summer Research Symposium, Rutgers University, New Brunswick, NJ

Hemmer, P., Aue, W. R. & Criss, A. H. (2013, May). *The Relationship between Multiple Memory Tasks*. Talk given at the Context and Episodic Memory Symposium, Philadelphia.

- Persaud K., Hemmer P., & Reyes, J.* (2013, April). *The influence of knowledge and expectations for colors on episodic memory*. Poster presented at the 7th Annual Perceptual Science Forum, Rutgers University, New Brunswick, NJ
- 2012 **Hemmer, P. & Criss, A.H.** (2012, November). *The effect of continuous word frequency, context variability and OLD across memory tasks*. Poster presented at the Psychonomic Society meeting, Minneapolis, Minnesota.
- Hemmer, P. & Criss, A.H.** (2012, July). *The effect of continuous word frequency, context variability and OLD across memory tasks*. Poster presented at the Annual Meeting of the Society for Mathematical Psychology, Columbus, OH
- Hemmer, P., Criss, A.H., Wyble, B.** (2012, May). *Assessing a neural basis for differentiation accounts of recognition memory*. Poster presented at the Context and Episodic Memory Symposium, Bloomington, IN.
- 2011 **Hemmer, P., Criss, A.H., & Wyble, B.** (2011, November). *Assessing a neural basis for differentiation accounts of recognition memory*. Poster presented at the Psychonomic Society meeting. Seattle, WA.
- Hemmer, P. & Steyvers, M.** (2011, July). *Estimating Individual Differences in a Rational Model of Memory*. Talk given at the Annual Meeting of the Society for Mathematical Psychology, Boston
- 2010 Steyvers, M. & **Hemmer, P.** (presenter). (2010, November). *The wisdom of crowds with informative priors*. Poster given at the Annual Meeting of the Psychonomic Society, St. Louis.
- Hemmer, P., Steyvers, M. & Miller, B.** (2010, July). *The Wisdom of Crowds with Informative Priors*. Poster presented at Annual Conference of the Cognitive Science Society, Portland, OR.
- Hemmer, P. & Steyvers, M.** (2010, July). *Estimating Individual Differences in a Rational Model of Memory*. Talk given at the Annual Meeting of the Society for Mathematical Psychology, Portland, OR.
- Hemmer, P. & Steyvers, M.** (2010, July). *Estimating Individual Differences in a Rational Model of Memory*. Talk given at the Annual Summer Interdisciplinary Conference, Bend, OR.
- Hemmer, P. & Steyvers, M.** (2010, May). *The Influence of Prior Knowledge on Recall for Height*. Poster given at the Context and Episodic Memory Symposium, Philadelphia, PA.
- 2009 *Annual Meeting of the Society for Mathematical Psychology, Amsterdam*
Annual Conference of the Cognitive Science Society, Amsterdam
Annual Summer Interdisciplinary Conference, Valle d'Aosta, Italy
- 2008 Steyvers, M. & **Hemmer, P.** (2008, November). *A Bayesian Account of Reconstructive Memory*. co-author talk given at the Annual Meeting of the Psychonomic Society, Chicago.
Annual Meeting of the Cognitive Science Society, Washington DC
Annual Summer Interdisciplinary Conference, Madonna Di Campiglio, Italy
Context and Episodic Memory Symposium, Tampa, Florida
- 2007 *Annual Summer Interdisciplinary Conference, Kalymnos, Greece.*
Annual meeting of the Society for Mathematical Psychology, Costa Mesa, Ca
- 2005 *Annual Meeting of the Psychonomic Society, Toronto.*

INVITED TALKS

- 2019 Keynote speaker, The Bochum-Rutgers Workshop: *Recent development in Philosophy and Cognitive science*. Ruhr University, Bochum, Germany.

- 2018 *The Rutgers-Princeton Center for Computational Cognitive Neuropsychiatry (CCNP)*
Fordham University, Fordham Council on Applied Psychometrics (FCAP)
University of California, Irvine, Cognitive Sciences Bonanza
- 2017 *Carnegie Mellon University, Center for Behavioral and Decision Research - Seminar Series*
- 2016 *Rutgers University, Newark, Cognitive Science at Newark (sponsored by Chancellor Seed Grant Program and RUBIC)*
University of Copenhagen, Center for Visual Cognition Colloquium
New York University, ConCats Colloquium
- 2013 *Rochester University, Brain & Cognitive Science Colloquium*
- 2012 *Rutgers University, What is Cognitive Science Talk Series*
- 2011 *Syracuse University, Colloquium*
Rutgers University. Colloquium
- 2010 *University of London, Birkbeck. Cognitive Science Seminar Series*

PROFESSIONAL ACTIVITIES & SERVICE

PROFESSIONAL AFFILIATIONS

- 2019-current President, Society for Mathematical Psychology (2019-2021)
- 2018-2019 President elect, Society for Mathematical Psychology
- 2017-current Reelected Board member, the Society for Mathematical Psychology
- 2015-current Organizing board member, Women in Mathematical Psychology
- 2014-current Advisory board member, Women in Cognitive Science
- 2013-2017 Board member, Society of Mathematical Psychology
- 2012- Women in Cognitive Science
- 2011- Women of Mathematical Psychology
- 2011- Fellow, Psychonomics Society
- 2009- Society for Mathematical Psychology
- 2008- Cognitive Science Society
- 2008- Association for Psychological Science

EDITORIAL POSITIONS

- 2019-current Member, Editorial Board, Computational Brain & Behavior
- 2018-current Associate Editor for Psychonomic Bulletin & Review
- 2016-Dec 2019 Associate Editor for Behavior Research Methods

AD-HOC REVIEWING

Journals

Proceedings of the National Academy of Sciences (PNAS) ; Journal of Experimental Psychology: General; Cognition; Journal of Memory and Language; Psychonomic Bulletin and Review; Memory & Cognition; Cognitive Science; Cognitive Psychology; Journal of Forensic Psychology Practice; Journal of Mathematical Psychology; Journal of Cognitive Psychology; Journal of Experimental Psychology: Learning, Memory and Cognition; Quarterly Journal of Experimental Psychology; Behavior Research Methods; Neural Computation

Conferences/Organizations

Cognitive Science Society; French National Research Agency (ANR); The National Science Foundation

(EPSCoR; Computational Cognition panel; Perception Action and Cognition)

PROFESSIONAL ACTIVITIES

- July 2019- Member, Advisory Committee, Rutgers University Center for Cognitive Science
- Jan 2019- Member, Executive Committee, Department of Psychology, Rutgers
- 2018-current Member, Cognitive Graduate admissions committee, Department of Psychology, Rutgers
- 2018-2019 Member, hiring committee, Cognitive area, Department of Psychology, Rutgers
- 2016-current Member, Web content committee, Rutgers University Center for Cognitive Science (RuCCs)
- 2016-current Member, Undergraduate Advising Committee, Department of Psychology
- 2015-current Member, Executive Committee, Rutgers University Center for Cognitive Science
- 2018 Co-Organizer, the Society for Mathematical Psychology "*Current Trends in Mathematical Psychology*" Satellite Conference, New Orleans, LA
- 2018 Moderator, Computational Neuroscience Workshop: "*Computation, Cognition and the Brain*", Rutgers New Brunswick, NJ
- 2017-2019 Member, Assistant Department Administrator Hiring Committee, Department of Psychology
- 2017 Co-Organizer, the Society for Mathematical Psychology "*Computational Approaches to Memory and Decision Making*" Satellite Conference, Vancouver, BC
- 2017 Co-Organizer, Women of Mathematical Psychology Professional Development Workshop, Warwick, UK
- 2017 Member, Business Office Hiring Committee, Department of Psychology
- 2016 Organizer, Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ
- 2016 Co-Organizer, Women of Mathematical Psychology Professional Development Workshop, New Brunswick, NJ
- 2012-2016 Member, Honors Major in Psychology Committee, Department of Psychology
- 2015 Co-Organizer, Women of Mathematical Psychology Professional Development Workshop, Newport Beach, California
- Member, Graduate admissions committee, Cognitive area, Department of Psychology
- 2014 Chair, Graduate requirements committee, Cognitive area, Department of Psychology
- Co-Organizer, Women of Mathematical Psychology Symposium, Quebec City, Canada
- 2013-2014 Member, the Office for the Promotion of Women in Science, Engineering, and Mathematics (SciWomen) *faculty learning community*, Rutgers University
- 2013 Organizer, Women of Mathematical Psychology Symposium, Potsdam, Germany
- 2013 Participant, Women Take Flight Leadership workshop, Rutgers University
- 2013 Area Chair, Graduate admissions committee, Department of Psychology, Rutgers
- 2012 Participant, the Office for the Promotion of Women in Science, Engineering, and Mathematics (SciWomen) OASIS Leadership & Professional Development Program, Rutgers University

PANELIST

- 2014 Women of Mathematical Psychology Symposium, Quebec City, Canada. Workshop: *Negotiation: Data and Advice*.
- 2013 Annual Meeting of the Cognitive Science Society, Berlin, Germany. Workshop: *Professional Advancement Through real and Virtual International Collaboration*.

TEACHING

INVITED GUEST LECTURE

University students

Prosem in Cognitive Science Graduate course (RuCCS, Rutgers, New Brunswick, FA 19; FA 18; FA16)

Advanced Topics in Human Cognition (Rutgers, New Brunswick, SP 15; SP 14)

Bayesian Inference in Perception & Cognition, graduate course (Rutgers, New Brunswick, FA 13)

Model Testing and Probabilistic Inference, graduate course (Rutgers New Brunswick, SP 13)

STUDENTS

Current Ph.D. Students (N=3)

2017- Joseph Sommer (co-advised with Julien Musolino; fellowship for the Summer Institute on Bounded Rationality 2019)

2018- Laura Saad (co-advised with Julien Musolino)

2019- Melissa Waer (co-advised with Julien Musolino)

Former Ph.D. Students

2013-2019 Talia Robbins (“Building Bridges” APS convention travel award; teaching fellow, Rutgers Honors College FA 2018-current)

2012-2018 Kimele Persaud (IGERT fellow, NSF GRFP fellow; Associate Editor Psychonomic Society Digital Content; now Post Doc, Rutgers Newark)

2015-2017 Daniel Wall (summer training program in computational modeling 2016; moved to Carnegie Mellon University)

Ph.D. thesis Committee

2012-2014 Min Zhao

2013-2015 Neha Sinha

2016-2017 Michelle Cheng

2017-2018 Kimele Persaud, Chair

2018-2019 Talia Robbins, Chair

2019- Andrea Shang

Qualifying Exam Committee

2013 Neha Sinha

2015-2016 Michelle Cheng

2015-2016 Nicholas Kleene

2015-2016 Kimele Persaud, Chair

2016-2017 Gwendolyn Rehrig

2017-2018 Meng Zhang

2017-2018 Talia Robbins, Chair

2018 Ji Hye Ryu

2018-2019 Andrea Shang

2019- Mengxue Kang

Masters Committee

2014 Kimele Persaud (IGERT fellow, NSF GRFP fellow), Chair

2014 Michelle Cheng

2014-2015 Jenna Herold

2015 Talia Robbins, Chair

2015-2017 Jason Rubinstein

2016 Rachel Lerch

2017 Daniel Wall, Chair

2018 Mengxue Kang

2019 Sten Knutsen

2019 Joseph Sommer, Chair

Undergraduate students supervised (N=27)

2018-current Nicole King (research assistant)

2018-2019 Jamel Smith (Henry Rutgers Scholar award winner; Honors in Psychology; Cooper Summer Research Fellow, 2018); Jane Rothrock (research assistant)

2016-2018 Chrystal Spencer (Henry Rutgers Scholar award winner; Honors in Psychology; McNair Scholar; research assistant); Kierra Pean (work study student, research assistant); Kevin Pei (research assistant)

2013-2017 Daljit Ahluwalia (Honors in Psychology; Cooper Summer Research Fellow 2015, 2016; research assistant; work study student)

2015-2017 Kaitlin Leyble (Cooper Summer Research Fellow 2016; Aresty Rising Sophomore Summer Research Program Fellow 2015)

2016-2017 Brett Friedman (Aresty Research Fellow 2016-2017); Eloise Gayer (Cognitive Science Individualized Major)

2014-2016 Mie-Hawa Sumner (Aresty Rising Sophomore Summer Research Program Fellow 2014; research assistant);

Sarah Robbins (research assistant)

2015-2016 Jinal Parikh (McNair Scholar);

2013-2016 Joseph DeAngelis (Honors in Psychology; Aresty Research Fellow 2014-2015; Cooper Summer Research Fellow 2014; 2015; Aresty Rising Sophomore Summer Research Program Fellow 2013);

Yubei Tang (Aresty Research Fellow 2014-2015, research assistant)

2013-2015 Jacqueline Krychiw (Aresty Research Fellow 2013-2014; research assistant);

Karan Jalundhwala (Aresty Research Fellow 2013-2014; research assistant)

2014 Emily Johnston (Perceptual Science summer REU Fellow)

2014 Nicole Gooden (research assistant)

2013-2014 Rachel Venaglia (Perceptual Science summer REU Fellow);

Nelson Wu (work study student)

2012-2014 Jordan Watson (work study student, research assistant)

2012-2013 Josue Reyes (independent research project); Kelly Skovron (work study student),

2012 Sara Silverman (research assistant), Riley Kennedy (research assistant)

2010-2011 Mindy DeYoung (research assistant); Daniela Amado (research assistant).
2009-2011 Jenny Shi (mentored for SURP and UROP fellowships).
2008-2009 Stanton Mack (research assistant); Christina Maranhao (research assistant); Erin Horowitz (research assistant).

High school students supervised (N=3)

2016 Camila Alvarado (summer intern)
2015 Lizbeth Lopez (summer intern)
2014-2016 Tatjana Mustac (Saint Francis Preparatory School Science Research program)