

Kimele Persaud, PhD

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PROFESSIONAL POSITIONS

- 2022-current Assistant Professor, Dept of Psychology, Rutgers University - Newark
- 2022-current Affiliated Member, Rutgers University Center for Cognitive Science
- 2017-2022 Digital Associate Editor for the Psychonomic Society
- 2016-2018 Research Assistant (P.I. Matthew Stone, Rutgers Computer Science)

EDUCATION

- 2018-2021 Postdoctoral Fellow, Computational Cognitive Development Lab (Advisor: Elizabeth Bonawitz) Rutgers University - Newark
- 2018 PhD Psychology, Priors & Memory Lab (Advisor: Pernille Hemmer) Rutgers University – New Brunswick
- 2015 M.S. Psychology, Rutgers University – New Brunswick, NJ
- 2015 Certificate in Cognitive Science, Rutgers Center for Cognitive Science
- 2012 B.S. Psychology, Delaware State University – Dover, DE ~Summa cum Laude

GRANT SUPPORT

External Support

- Spring 2024 *PI.* NSF-SBE Build and Broaden “Understanding Expectation-Driven Learning in Early Childhood: An Experimental and Computational Investigation”.
Total Award: **pending**
- Spring 2023 *Co-PI.* William K. and Katherine W. Estes Fund for Advanced training program grant. “Computational Cognitive Models of Learning and Development” Workshop held at Harvard University.
Total Award: **\$15,000**
- 2019-2022 *PI.* NSF Social Behavioral & Economics, Postdoctoral Fellowship, Role: PI
Total Award: **\$165,000**
- 2013-2016 *PI.* NSF DGE-0937373, Graduate Research Fellowship
Total Award: **\$94,000**
- 2012-2013 *Trainee.* NSF-Integrative Graduate Education and Research Traineeship Fellowship
Total Award: **\$30,000**

Internal Support

Summer 2024 Rutgers University, Graduate School - Newark Summer Undergraduate
Research Institute
Total Award: **\$1,500**

Summer 2023 Rutgers University, Graduate School - Newark Summer Undergraduate
Research Institute
Total Award: **\$1,500**

Spring 2023 Rutgers Mutual Mentoring Network Grant: *RU-CAMP: Rutgers
Collaborative Mentoring Partnerships*
Total Award: **\$6000**

Summer 2022 Rutgers University, Graduate School - Newark Summer Undergraduate
Research Institute
Total Award: **\$1,500**

2017-2018 Rutgers University, Graduate School New Brunswick Dissertation
Fellowship
Total Award: **\$26,000**

2016-2017 Rutgers University, Department of Psychology Pre-Dissertation Fellowship
Total Award: **\$26,000**

HONORS & AWARDS

2024 APA Editorial Fellowship
2019 Vision Sciences Society Student Travel Award
2017 Psychonomic Society J. Franks Yates Student Travel Award
2016 Society for Mathematical Psychology Student Award
2014 Context and Episodic Memory Symposium Student Travel Award
2014 Robert Glushko Travel Award to the Cognitive Science Society Meeting
2013 Women in Cognitive Sciences (WiCS) Travel and Networking Award

PUBLICATION LIST

Peer-reviewed Articles

Persaud, K. & Hemmer, P. (*in prep*) Examining Schema Components that Drive Long-term Memory for Objects in Scenes.
Macias C., Archer, K., & Persaud, K. (*in prep*). What Do They Expect: A Bayesian Model of Children's Expectation-driven Memory
Persaud K., Macias, C., & Bonawitz, E. (*in prep*). Exceeding Expectations: Memory for expectation congruent and incongruent object features.

- Macias, C., & Persaud, K., (*in press*). From Silos to Synergy: Integrating Approaches to Investigate the Role of Prior Knowledge and Expectations on Episodic Memory
- 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
- Persaud, K., Macias, C., Hemmer, P., & Bonawitz, E. (2021). Evaluating recall error in preschoolers: Category expectations influence episodic memory for color. *Cognitive Psychology*, *24*, 101357.
- Persaud, K., Bass, I., Colantonio, J., Macias, C., & Bonawitz, E. (2020). Opportunities and Challenges Integrating Resource-Rational Analysis with Developmental Perspectives. Invited Commentary to Lieder and Griffiths, *Brain and Behavioral Sciences*.
- Persaud, K., Hemmer, P., Kidd, C. & Piantadosi, S. (2017). Seeing colors: Cultural and environmental influences on episodic memory. *i-Perception*, 1-5.
- Persaud, K. & Hemmer, P. (2016). The dynamics of fidelity over the time course of long-term memory. *Cognitive Psychology*, *88*, 1-21.
- Hemmer, P & Persaud, K. (2014). Interaction between categorical knowledge and episodic memory across domains. *Frontiers in Psychology (Cognitive Science)*. Research Topic "Common and Distinctive Mechanisms in Memory, Reasoning, and Categorization" hosted by Dr(s) BRETT HAYES, Evan Heit, Caren Rotello.

Conference Proceedings

- Macias, C. & Persaud, K. (2023). How Bizarre: Does the color bizarreness effect extend to long-term memory? In M. Goldwater, F. Anggoro, B. Hayes, & D. Ong (Eds.) *Proceedings of the Annual Conference of the Cognitive Science Society*. Sydney, Australia: Cognitive Science Society.
- Cheng, Qi., Mert, I., Grmek, G, Mbarki, R, Choi, T., Sun, Y., Persaud, K., Wang, J., & Alikhani, M. (2023). Learning multimodal cues of children's uncertainty. *SIGDial Proceedings – Special Interest Group on Discourse and Dialogue*.
- Choi, R., Mbarki, R., Grmek, G., Persaud, K., Wang, J., & Alikhani, M. (2022) "*Learning variations in children's multimodal cues of uncertainty during a math-related numerical discrimination task.*" *Proceedings of the Annual Conference of the Cognitive Science Society*. Toronto, CA.
- 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.K. Goel, C.M. Seifert, & C. Freksa (Eds.) *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, QB: Cognitive Science Society.
- Persaud, K., McMahan, B., Alikhani, M., Pei, K., Hemmer, P., & Stone, M. (2017). When is likely unlikely: Investigating the continuum of linguistic vagueness. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), *Proceedings of the*

39th Annual Conference of the Cognitive Science Society (pp. 2876-2881). London, EU: Cognitive Science Society.

Ahluwalia, D., Hemmer, P., & Persaud, K. (2017). Pop-culture exerts a strong influence on the Misattribution of Memory. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 1513-1518). London EU: Cognitive Science Society.

Hemmer, P., Persaud, K., McGovern, C., & Piantadosi, S. (2015). Shifting priors: Evaluating the cross-cultural influence of color expectations on episodic 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*. San Diego, CA: Cognitive Science Society.

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*, Quebec City, QC: Cognitive Science Society.

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*, Quebec City, QC: Cognitive Science Society.

TALKS AND PRESENTATIONS

Invited Research Talks/Guest Lectures

Persaud K. (April 2024). "Computational Models of Interactions between Category Knowledge and Episodic Memory across Groups". Invited talk at University of Buffalo.

Persaud K. (December 2023). "Bayesian Approaches to Investigating Interactions between Semantic Knowledge and Episodic Memory across Groups". Invited lecturer at Rutgers Center for Cognitive Science (RuCCS).

Persaud, K. (October 2022) "Investigating the Interaction between Prior Semantic Knowledge and Long-term Episodic Memory". Invited lecturer at New Jersey Institute for Technology (NJIT).

Persaud, K. (October 2021) "The Role of Category Knowledge and Expectations in Reconstructive Memory across Cultural and Developmental Groups". Invited talk at Lehigh University

Persaud, K. (October 2021) "An Integrated Approach to Evaluating the Role of Category Knowledge and Expectations in Episodic Memory across Groups". Invited talk at University of Massachusetts Amherst

Persaud, K. (October 2021) “The Interaction of Category Knowledge and Episodic Memory across Socio-Cultural and Developmental Groups”. Invited talk at Seton Hall University

Persaud, K. (September 2021) “An Integrated Approach to Assessing the Interaction between Category Knowledge and Expectations in Episodic Memory across Groups”. Invited talk at Harvard University

Invited Panel Discussion

Persaud K. (April 2022). Invited Interview. SPARK Society. The Spark Society is a society of Cognitive Scientists of color that improves the visibility of its members and creates mentorship opportunities for junior cognitive psychologists of color.

Persaud K. (March 2022). Invited Panelist. Black in Psych panel discussion. Black Women in Psychology: The Challenges & Joys in/of Science. Black in Psych is a platform to promote visibility, community, and networking opportunities between Black professionals and trainees across the field of psychology. We seek to celebrate, amplify, and support Black voices in psychology and to encourage dialogue around the intersections of psychology, race, social justice, and equity.

Presentations at conferences and meetings (note: presenter name underlined)

2024 Persaud K. (March, 2024) Bi-directional Interactions between Episodic Memory and Category Learning in Early Childhood. Invited Pre-conference workshop talk presented at Biennial Meeting of the Child Development Society, Pasadena, CA.

Macias C. & Persaud K. (March, 2024). Variations in Violations: Evaluating the Impact of the Degree of Expectation-Violation and Violation-Type on Children’s Memory for Storybook Details. Poster presented at presented at Biennial Meeting of the Child Development Society, Pasadena, CA.

Macias C. & Persaud K. (July, 2024) The Role of Surprise in Memory: Assessing the Impact of Levels of Surprise on Children's Episodic Memory. Poster presented at the Annual Meeting of the Cognitive Sciences Society, Toronto, CA.

2023 Hu, T., & Persaud, K. (November, 2023) “*The Power of Fear? Understanding Episodic memory for Threat-Relevant Information.*” Poster expected to be presented at Annual Meeting of the Psychonomic Society, San Francisco, CA.

Archer K, & Persaud, K. (November, 2023) “*Strengthening Connections: The Role of Encoding Context on Object-Feature Storage.*” Poster expected to be presented at Annual Meeting of the Psychonomic Society, San Francisco, CA.

Macias, C. & Persaud, K. (November, 2023) *“Beyond Expectations: Exploring the Boundaries of Recognition Memory for Bizarre Object-Color Pairs”* Poster expected to be presented at Annual Meeting of the Psychonomic Society, San Francisco, CA.

Adhikari, N., Smith, K, & Persaud, K. (November, 2023) *“Investigating the Combined Effects of Sociality and Emotion on Episodic Memory for Objects and Scenes”*. Poster expected to be presented at Annual Meeting of the Psychonomic Society, San Francisco, CA.

Macias, C. & Persaud, K. (July, 2023). *“How Bizarre: Does the color bizarreness effect extend to long-term memory?”* In M. Goldwater, F. Anggoro, B. Hayes, & D. Ong (Eds.) Proceedings of the Annual Conference of the Cognitive Science Society. Sydney, Australia: Cognitive Science Society.

Co-organized Symposia (May, 2023). *“Critical Perspectives on Vision Science: Towards Unbiasing Our Methods and Role in Knowledge Production”*. Annual Meeting of the Vision Sciences Society, St. Pete’s Beach, FL.

2022 Choi, R., Mbarki, R., Grmek, G., Persaud, K., Wang, J., & Alikhani, M. (July, 2022) *“Learning variations in children’s multimodal cues of uncertainty during a math-related numerical discrimination task.”* Poster presented at the Annual Meeting of the Cognitive Sciences Society, Toronto, CA.

Persaud K. & Bonawitz, E. *“Dissociating the Impact of Object-Color Expectations and Object-Color Violations on Visual Feature Memory.”* Talk presented at the Annual Meeting of the Vision Sciences Society, St. Pete’s Beach, FL.

2021 Persaud, K. & Bonawitz, E. *“How far does having expectations go? Evaluating the Influence of Color Expectations on Memory for Object-Color and Object-Shape.”* Talk presented at the Annual Meeting of the Psychonomic Society, Virtual Meeting.

Persaud K. & Bonawitz, E. *“Just How Great are Those Expectations? Evaluating the Influence of Object-Color Violations on Visual Memory for Object-Shape”* Poster presented at the Annual Meeting of the Vision Sciences Society, Virtual Meeting.

2020 Persaud K. & Bonawitz, E. *“Great Expectations: Evaluating the Role of Object-Color Expectations on Visual Memory”* Poster presented at the Annual Meeting of the Vision Sciences Society, Virtual Meeting.

Persaud K. & Bonawitz, E. “*Great Expectations: Evaluating the Role of Object-Color Expectations on Visual Memory*” Poster presented at the Annual Meeting of the Cognitive Science Society, Virtual Meeting.

2019 Persaud, K., Macias, C., Hemmer, P., & Bonawitz, E. “*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.

Persaud, K., Macias, C., Hemmer, P., & Bonawitz, E. (2019) “*Age-Related Differences in the Influence of Category Expectations on Episodic Memory in Early Childhood.*” Poster presented at the Annual Meeting of the Cognitive Science Society, Montreal, Quebec, Canada.

2017 Persaud, K. McMahan, B., Alikhani, M., Pei, K., Hemmer, P., & Stone, M. “*When is likely unlikely?*” Poster presented at the Annual Perceptual Science Forum, New Brunswick, NJ.

Ahluwalia, D., Hemmer, P., & Persaud, K. “*The influence of pop-culture on misattribution of memory*” Poster presented at the Annual Meeting of the Cognitive Science Society, London, UK.

Macias , C., Persaud, K., Hemmer, P., & Bonawitz, E. (2017) *Strategic memory: Preschoolers’ encoding of color categories*. Child Development Society, Portland, OR

Persaud, K. McMahan, B., Alikhani, M., Pei, K., Hemmer, P., & Stone, M. “*When is likely unlikely: Investigating the variability of vagueness?*” Poster presented at the Annual Meeting of the Cognitive Science Society, London, UK.

2016 Persaud, K. & Hemmer, P. “*Does prior knowledge influence the fragility of associations in memory?*” Poster presented at the Annual Meeting of the Psychonomic Society, Boston, MA.

Persaud, K. & Hemmer, P. “*The dynamics of fidelity over the time course of long-term memory*” Poster Presented at the Annual Meeting of the Cognitive Science Society, Philadelphia, PA.

Persaud, K. & Hemmer, P. “*Does prior knowledge influence the fragility of associations in memory?*” Poster presented at the Annual Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.

Semizer, Y., Persaud, K., He, X, Kleene, N., & Tanrikulu, D. “*Search strategies for multiple targets in probabilistic environments*” Poster

presented at the Annual Meeting of the Visual Sciences Society, St. Pete Beach, FL.

Persaud, K. & Hemmer. "*The dynamics of fidelity over the time course of long-term memory*" Poster presented at the Annual Perceptual Science Forum, New Brunswick, NJ.

2015 Persaud, K., Hemmer, P., Kidd, C., & Piantadosi, S. "*Inferring the Tsimane's use of color categories from recognition memory*" Poster presented at the Context and Episodic Memory Symposium (CEMS), Philadelphia, PA.

Hemmer, P., Persaud, K., McGovern, C., & Piantadosi, S. "*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.

Hemmer, P. & Persaud, K. "*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.

2014 Persaud, K., & Hemmer, P. "*Expectations for color influence episodic memory*" Talk presented at the Annual Meeting of the Cognitive Science Society, Quebec City, Canada.

Persaud, K., & Hemmer, P. "*Color preferences and sampling behavior in recall for color*" Poster presented at the Annual Meeting of the Mathematical Society, Quebec City, Canada.

Persaud, K., & Hemmer, P. "*The influence of knowledge and expectations for colors on episodic memory*" Poster presented at the Annual Context and Episodic Memory Symposium, Philadelphia, PA.

Jalundhwala, K., Persaud, K., & Hemmer, P. "*The influence of prior knowledge on episodic memory for colors*" Poster presented at the Annual Aresty Undergraduate Research Symposium, Rutgers University

Krychiw, J., Persaud, K., & Hemmer, P. "*Recognition memory for objects in natural scenes*" Poster presented at the Annual Aresty Undergraduate Research Symposium, Rutgers University.

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

Venaglia, R., Hemmer, P., Persaud, K., & DeAngelis, J. "*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.

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

Persaud K., Hemmer, P., & Reyes, J. “*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.

PROFESSIONAL ACTIVITIES AND SERVICE

2024 **Editorial Fellow**

Advisor. Graduate School – Newark Summer Undergraduate Research Institute

Honors Thesis Advisor.

2023 *Co-Organizer.* VSS Symposium. “Critical perspective on vision sciences: Towards unbiassing our methods and role in knowledge production”. Annual Meeting of the Vision Sciences Society, St. Pete’s Beach, FL.

Co-Organizer. Computational Cognitive Models of Learning and Development Workshop

Grant panelist. NSF – SBE

Advisor. Graduate School – Newark Summer Undergraduate Research Institute

2022 *Advisor.* Graduate School – Newark Summer Undergraduate Research Institute

Co-Organizer. Cognition, Brain, and Behavior (CBB) brown bag series

2021 – 2022 *Peer mentee.* Rutgers Connection Network Mentoring Program

Teaching

2024 *Lecturer,* Cognitive Processes, Undergraduate (Spring 2024)

2023 *Lecturer,* Cognitive Processes, Undergraduate (Spring 2023)

Lecturer, Cognitive Processes, Graduate (Fall 2023)

2022 *Lecturer,* Cognitive Processes, Undergraduate (Fall 2022)

Guest Lecturer, Rutgers-Newark Psychology Masters Boot Camp

- 2018 *Lecturer*, Interdisciplinary Honors Seminar, Rutgers Honors College (Spring)
- 2018 *Co-Curriculum Developer*, Advanced Topics in Cognition (Fall)
- 2017 *Reader*, Matlab Programming for the Social Sciences (Spring)
- 2016-2018 *Guest Lecturer*, Matlab Programming for the Social Sciences (Fall & Spring)
- 2016-2018 *Guest Lecturer*, Cognition (Fall & Spring)
- 2015 *Instructor*, Sensation and Perception Lab (Summer)

Professional Affiliations

Regional Undergraduate Consortium, SPARK Society, Society for Applied Research in Memory and Cognition (SARMAC), Vision Sciences Society (VSS), Cognitive Sciences Society, Society for Mathematical Psychology, Psychonomic Society, Cognitive Development Society, Women in Cognitive Science, Ronald E. McNair Post-Baccalaureate Achievement Program, Aresty Undergraduate Research Program

Ad-Hoc Reviewing

NSF Grant Panel, Journal of Cognition, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning, Memory, and Cognition, Cognitive Psychology, Psychonomic Bulletin and Review, Journal of Psychological Research, Journal of Developmental Psychology, Memory, Cognitive Sciences Society

PhD Dissertation Committee

- 2024 Wesley Ameden
 2024 Yun-Yen Yang
 2023 Ryan Steeples
 2023 Joseph Colantonio
 2023 Roberto Abreu-Mendoza
 2022 Carla Macias

Graduate Students/Postdocs supervised

- 2024- Katherine Archer (PhD student)
 Yebin Won (MA student)
- 2022 - Carla Macias, PhD (postdoc)
 Amber Hu (PhD student)
 Nikita Adhikari (MA student)

Undergraduate students supervised

- 2024 - Joyce Abdelmissih, Ela Aydin, Joustina Ibrahim, Michael Ailingier, Amber Angel (Honors Thesis), Nicole Caruso, Rosa Congote, Taina Figueroa, Merna Naeim, Sabriyyah Thomas, Raveera Toqeer
- 2023 – Joyce Abdelmissih, Anahi Chavez, Joustina Ibrahim, Christine Khalil (Honors Thesis), Faeza Zaiter, Christine Khalil (Honors Thesis), Michael Ailingier, Amber Angel (Honors Thesis), Nicole Caruso, Noor El-Hawwat,

Bassim Ibrahim, Saleha Masood, Mackenzie Wilson (Summer Undergraduate Research Institute), Alhassan Moustafa

2022 – 2023 Daniella Cordasco, Christine Khalil, Chidinma Chima, Vidhi Patel, Supriya Mamidi, Anahi Chavez, Laasya Gaddipati, Victoria Hoegah, Akua Asante (Summer Undergraduate Research Institute)

2021 – 2022 Vidhi Patel, Supriya Mamidi, Anahi Chavez, Laasya Gaddipati, Victoria Hoegah

2020 – 2021 Ericka Zapet, Lucia Amaris

2019 – 2020 Cyndie Casseus, Katherine Archer (summer intern)

2018 – 2019 Joanner Santana; Katia Rodriguez

2017-2018 Kevin Pei; Kierra Pean

2016-2017 Daljit Ahluwalia (Rutgers Honors); Eloise Gayer; Kierra Pean

2016 Kevin Pei; Mie-Hawa Sumner (Aresty Research Fellow)

2015 Jinal Parikh (McNair Scholar)

2013-2014 Jacqueline Krychiw (Aresty Research Fellow); Karan Jalundhwala (Aresty Research Fellow)

2013 Rachel Venaglia (Perceptual Science Summer REU Fellow); Joseph DeAngelis (Aresty Summer Research Fellow)

2012-2013 Jordan Watson (research assistant); Kelly Skovron (research assistant); Josue Reyes (research assistant)