

SEJAL MISTRY

Department of Psychological and Brain Sciences, Texas A&M University
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EDUCATION

Ph.D. in Psychology, Cognition and Cognitive Neuroscience Texas A&M University	Expected May 2024 College Station, TX
B.S. in Psychology, Minor in Biology The University of Texas at Austin	Aug. 2017 Austin, TX

RESEARCH EXPERIENCE

Graduate Research Assistant Aug. 2019 – Present

Texas A&M University, Development of Mind and Emotions Lab
Supervisor: Rebecca Brooker, Ph.D.

- Lead projects that examine the neurobehavioral trajectories of affective development (i.e., anxiety risk) during pregnancy, postpartum, infancy, and early childhood.
- Collect and analyze basic science and transactional processes in parent-child dyads using behavioral (Lab-TAB; Goldsmith & Rothbart, 1991), physiological (cortisol, heart rate) and neurological measures (EEG/ERP).

Study Coordinator May 2018 – Aug. 2019

Texas A&M University, TAMU Family Study
Supervisors: Matthew Vess, Ph.D. & Rebecca Brooker, Ph.D.

- Recruited, scheduled, and coordinated with community families for research visits.
- Scheduled and supervised students while serving as a liaison between participants, research assistants, and investigators.

Lab Manager Dec. 2017 – Aug. 2019

Texas A&M University, Development of Mind and Emotions Lab
Supervisor: Rebecca Brooker, Ph.D.

- Conducted weekly meetings, trained, and managed undergraduate and graduate students in data collection and scoring.
- Developed protocols for experimental design, led research visits, and analyzed neurophysiological and behavioral data.

Undergraduate Research Assistant May 2016 – May 2017

University of Texas at Austin, Lifespan Development Lab
Supervisor: Elliot Tucker-Drob, Ph.D.

- Recruited families, scheduled participants, and trained undergraduate students in experimental protocol.
- Administered and scored executive measures and cognitive exams while collecting hair and cortisol to be assayed.

HONORS & AWARDS

Young Investigator Award, Journal of Neuroendocrinology	April 2022
Graduate Student Travel Award (\$475), Dept. of Psychological and Brain Sciences	April 2022
Elizabeth Qualls '89 Endowed Fellowship (\$3000 + tuition), Dept. of Psychological and Brain Sciences	April 2021
Honorable Mention, National Science Foundation Graduate Research Fellowship Program	March 2021
2 nd Year Poster Award (1 st Place - \$500), Dept. of Psychological and Brain Sciences	October 2020
Graduate Student Travel Award (\$325), Dept. of Psychological and Brain Sciences	March 2020
Graduate Student Travel Award (\$300), Society for Research in Child Development	March 2019

PUBLICATIONS

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- Brooker, R.J., **Mistry-Patel, S.**, Kling, J., & Howe, H. (2021). Deriving within-person estimates of delta-beta coupling: A novel measure for identifying individual differences in emotion and neural function in childhood. *Developmental Psychobiology*.
- Brooker, R.J., Hammond, M., **Mistry-Patel, S.**, Schlegel, R.J., Vess, M., Wine, M., & Havens, J. (2021). Feelings of parental authenticity moderate concurrent links between breastfeeding experience and symptoms of postpartum depression. *Frontiers in Women's Global Health*, 2, 25.
- Nyman, T., Pegg, S., Kiel, E. J., **Mistry-Patel, S.**, Becker-Schmall, L. J., & Brooker, R. J. (2020). Perceived social support moderates neural reactivity to emotionally valenced stimuli during pregnancy. *Psychophysiology*, 57(11), e13647. NIHMSID: 1606964

In Press

Mistry-Patel, S. & Brooker, R.J. Associations between error-related negativity and childhood anxiety risk differ based on SES. *Developmental Psychology*. PMID: PMC1828016.

Under Review

Brooker, R.J., **Mistry-Patel, S.**, Kiel, E.J., Van Lieshout, R.J., Schmidt, L.A., & John-Henderson, N. Infant temperament predicts changes in maternal mental health symptoms from pregnancy to postpartum. *Journal of Affective Disorders Reports*.

Kling, J.L., **Mistry-Patel, S.**, Peoples, S.G., Caldera, D.R., & Brooker, R.J. Prenatal maternal depression predicts accelerated frontal brain maturation in infants. *Infant Behavior and Development*.

In Preparation:

Mistry-Patel, S., Nyman, T., Dollar, J., Gagne, J., & Brooker, R.J., Isolated measures of emotion state predict aggression and prosociality: Moderation by N2.

PRESENTATIONS

Brooker, R.J., Nyman, T., **Mistry-Patel, S.**, & Kling, J.L. *Avoiding Icarus: when too high becomes too bad*. Talk given by Brooker, R.J. at the Development 2022 Conference; Calgary, Canada.

Mistry-Patel, S., Peoples, S.G., & Brooker, R.J. *Maternal depression moderates error-related negativity across pregnancy and postpartum*. Talk given at the 2022 International Meeting on the Neuroscience of Parenting; Saint-Malo, France.

Mistry-Patel, S., Nyman, T.N., Dollar, J., Gagne, J., & Brooker, R.J. *Early temperament predicts aggression and prosociality: moderation by N2*. Talk given at the Professional Cognition and Cognitive Neuroscience Area Seminar, February 2022.

Mistry-Patel, S. & Brooker, R.J. *SES moderates the influence of neural activity on anxiety risk across early childhood*. Talk given at the Professional Cognition and Cognitive Neuroscience Area Seminar, April 2021.

Mistry-Patel, S. & Brooker, R.J. *SES Moderates the influence of biological and environmental pathways of anxiety risk in early childhood*. Poster presented at the 2021 Society for Research in Child Development Virtual Biennial Meeting.

Brooker, R.J., Kling, J.L., **Mistry-Patel, S.**, & Nyman, T.N. *I know you are but what am I? Using neuroscience to understand maternal contributions to childhood temperament*. Talk given by Brooker, R.J. at the 2020 Virtual Occasional Temperament Conference.

Mistry-Patel, S., Nyman, T.N., Dollar, J., Gagne, J., & Brooker, R.J. *Isolated Measures of Emotion State Predict Aggression and Prosociality: Moderation by N2*. Poster presented at the 2020 Virtual Occasional Temperament Conference.

Brooker, R.J., & **Mistry S.** *Child characteristics modulate trajectories of pre- to postpartum maternal anxiety*. Talk given by Brooker, R.J. at the 2019 Society for Research in Child Development Biennial Meeting; Baltimore, Maryland.

Mistry, S., & Brooker, R.J. *Infant emotional reactivity moderates pre- to postpartum symptoms of anxiety and depression in mothers*. Poster presented at the 2019 Society for Research in Child Development Biennial Meeting; Baltimore, Maryland.

Mistry, S., Nyman, T., Schmall, L.J., Kiel, E.J., & Brooker, R.J. *Perceived social support modulates neural reactivity to negative stimuli during pregnancy*. Poster presented at:

- 2019 Society for Research in Child Development Biennial Meeting; Baltimore, Maryland
- 11th Annual Texas A&M Institute for Neuroscience Symposium; College Station, Texas

Rivera, G.N., Vess, M., Brooker, R.J., Stichter, M., & Nederhiser, J.M. *Beliefs about heritability relate to authoritarian parenting beliefs, parental control, and child depression*. Poster presented by **Mistry, S.** at the 2019 Society for Research in Child Development Biennial Meeting; Baltimore, Maryland.

CONSULTING

Mistry-Patel, S. (Anticipated 2023). *Research in action: screen time during COVID-19 and low-income families*. New York: McGraw Hill.

SERVICE

<i>Ad-hoc Reviewer</i> , Developmental Psychobiology	Oct. 2021 – Present
<i>Student Area Representative</i> , Cognition and Cognitive Neuroscience	Aug. 2021 – Present
<i>Member</i> , Diversity and Inclusion's Recruitment and Retention of BIPOC Students Subcommittee	Aug. 2020 – Present
<i>Reviewer</i> , Researching Injustice and Social Equality (RISE) American Psychological Science Award	March 2020 – Present

PROFESSIONAL MEMBERSHIPS

American Psychological Association
Society for Research in Child Development