Tristan Skye Yates

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Academic Appointments

2023-Present Columbia University

Postdoctoral Research Scientist Advisor: Nim Tottenham

Education

2018-2023 Yale University

Ph.D., Cognitive Psychology Advisor: Nicholas Turk-Browne

Thesis topic: Learning, memory, and perception in infants using fMRI

2014-2018 Emory University

B.S., Neuroscience and Behavioral Biology, High Honors

Thesis advisor: Patricia Bauer

Thesis topic: Transitive relations in knowledge integration in preschoolers

2016 University of St. Andrews

Institute of Behavioral and Neural Sciences Study Abroad

Awards and Honors

2023	2022 Cozzarelli Prize Class V Finalist (Yates et al., 2022, PNAS)
2023	Yale 3-Minute Thesis Competition Social Sciences Division Runner-Up
2022	Vision Sciences Society Travel Award
2021	Vision Sciences Society Travel Award
2018	NSF Graduate Research Fellowship
2018	Yale Psychology Sterling Prize Fellowship
2018	Emory University Academic Coach of the Year
2017	Emory University Independent Research Grant (\$1,000)
2017	Barry Goldwater Scholarship Honorable Mention
2017	Emory University Travel Grant (\$500, Cognitive Development Society)
2016	Barry Goldwater Scholarship Honorable Mention
2016	Emory Scholars Program Dean's Achievement Scholarship
2016	Phi Beta Kappa National Honors Society
2015	Phi Eta Sigma National Freshman Honors Society

Publications *equal contribution

Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2023). Functional networks in the infant brain during sleep and wake states. *Cerebral Cortex*, bhad327.

Yates, T. S., Sherman, B. E., & Yousif, S. R. (2023). More than a moment: What does it mean to call something an 'event'? *Psychonomic Bulletin & Review*.

Ongchoco, J. D. K., **Yates, T. S.**, & Scholl, B. J. (in press). Event segmentation structures temporal experience: Simultaneous dilation and contraction in rhythmic reproductions. *Journal of Experimental Psychology: General.*

- Yates, T. S., & Lewkowicz, D. J. (2023). Robust holistic face processing in early childhood during the COVID-19 pandemic. *Journal of Experimental Child Psychology*, 232, 105676.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2023). Face processing in the infant brain after pandemic lockdown. *Developmental Psychobiology*, 65(1), e22346.
- Yates, T. S., Skalaban, L. J., Ellis, C. T., Bracher, A. J., Baldassano, C., & Turk-Browne, N. B. (2022). Neural event segmentation of continuous experience in human infants. *Proceedings of the National Academy of Sciences*, 119(43), e2200257119.
- Ellis, C. T., Yates, T. S., Skalaban, L. J., Bejjanki, V. R., Arcaro, M. J., & Turk-Browne, N. B. (2021). Retinotopic organization of visual cortex in human infants. *Neuron*, 109, 1-11.
- Ellis, C. T., Skalaban, L. J., **Yates, T. S.**, Bejjanki, V. R., Córdova, N. I., & Turk-Browne, N. B. (2021). Evidence of hippocampal learning in human infants. *Current Biology, 31*, 1-7.
- Ellis, C. T., Skalaban, L. J., **Yates, T. S.**, & Turk-Browne, N. B. (2021). Attention recruits frontal cortex in human infants. *Proceedings of the National Academy of Sciences*, 118(12), e2021474118.
- **Yates, T. S.**, Ellis, C. T., Turk-Browne, N. B. (2021). The promise of awake behaving infant fMRI as a deep measure of cognition. *Current Opinion in Behavioral Sciences*, 40, 5-11.
- Yates, T. S., Ellis, C. T., Turk-Browne, N. B. (2021). Emergence and organization of adult brain function throughout child development. *NeuroImage*, 226, 117606.
- Rieck, B. A.*, Yates, T. S.*, Bock, C., Borgwardt, K., Wolf, G., Turk-Browne, N.B., & Krishnaswamy, S. (2020). Uncovering the Topology of Time-Varying fMRI Data using Cubical Persistence. Paper and spotlight presentation at Advances in Neural Information Processing System.
- Ellis, C. T., Skalaban, L. J., Yates, T. S., Bejjanki, V. R., Córdova, N. I., & Turk-Browne, N. B. (2020). How to read a baby's mind: Re-imagining fMRI for awake, behaving infants. *Nature Communications*, 11, 4523.

Manuscripts

- Yates, T. S., Yasuda, S., & Yildirim, I. (preprint, under review). Temporal segmentation and 'look ahead' simulation: Physical events structure visual perception of intuitive physics.
- Yates, T. S., Fel, J., Choi, D., Trach, J. E., Behm, L., Ellis, C. T., & Turk-Browne, N. B. (in prep). Hippocampal activity predicts memory-related looking preferences in older infants.
- Ongchoco, J. D. K., Koller W. N., Bronstein M. V., Yates T. S., Cannon, T. D., & Scholl, B. J. (in prep). Out of sync in time and thought: Disordered event segmentation in paranoia.

Posters and Presentations

- Yates, T. S., Ellis, C.T., & Turk-Browne, N. B. (2022, November). Influence of sleep/wake state on functional networks in the infant brain. Poster presented at the Society for Neuroscience.
- Fel, J., Yates, T. S., Ellis, C.T., & Turk-Browne, N. B. (2022, November). Investigating episodic memory processes within the human infant hippocampus. Poster presented at the Society for Neuroscience.
- Choi, D., Yates, T. S., Trach, J., Ellis, C.T., & Turk-Browne, N. B. (2022, November). Neural retrieval of infant memories during childhood. Poster presented at the Society for Neuroscience.
- Yates, T. S., & Turk-Browne, N. B. (2022, July). Mechanisms of early cognition through awake, task-based brain imaging in infants. Talk presented during symposium on "Use of timely methods of cognitive neuroscience to understand infant cognition" at the International Congress of Infant Studies.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2022, May). Neural selectivity for faces in human infants after pandemic lockdown. Talk presented at the annual meeting of the Vision Sciences Society.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2021, November). Episodic encoding in the infant brain revealed through subsequent memory. Poster presented at the Society for Neuroscience.
- Ellis, C. T., Yates, T. S., Skalaban, L. J., Bracher, A. J., & Turk-Browne, N. B. (2021, November). Exploring the hierarchical organization of the infant visual system with model-based representational similarity. Poster presented at the Society for Neuroscience.

- Yates, T. S., Skalaban, L. J., Ellis, C. T., Bracher, A. J., Baldassano, C., & Turk-Browne, N. B. (2021, August). How infants carve up continuous experience into neural events. Poster presented at the annual meeting of Flux society.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2021, May). Counting sheep: Perceptual narrowing of other-species faces in infant fMRI. Poster presented at the annual meeting of the Vision Sciences Society.
- Yasuda S., **Yates, T. S.**, & Yildirim, I. (2021, May). Physical event representations: Observers spontaneously impose discrete temporal structure in intuitive physical scene understanding. Poster presented at the annual meeting of the Vision Sciences Society.
- Ellis, C. T., Yates, T. S., Arcaro, M. J., & Turk-Browne, N. B. (2021, May). Prediction of retinotopic organization in infant visual cortex from movies. Talk presented at the annual meeting of the Vision Sciences Society.
- Yates, T. S., Ongchoco, J. D. K., & Scholl, B. (2020, November). Rhythmic reproductions reveal how event segmentation structures temporal experience. Poster presented at the Object, Perception, Attention, and Memory Meeting.
- Rieck, B. A., Yates, T. S., Wolf, G., Turk-Browne, N. B., & Krishnaswamy, S. (2020, July). Topological Methods for fMRI Data. Poster presented at the International conference on Machine Learning Workshop on Computational Biology.
- Yates, T. S., Ellis, C. T., & Turk-Browne, N. B. (2020, July). Counting sheep: Perceptual narrowing of other-species faces in infant fMRI. Poster presented at the International Congress of Infant Studies.
- Ellis, C. T., Skalaban, L. J., Yates, T. S., & Turk-Browne, N. B. (2020, July). Engagement of frontoparietal cortex in attention behavior from fMRI with awake infants. Poster presented at the International Congress of Infant Studies.
- Ellis, C. T., Skalaban, L. J., **Yates, T. S.**, Bejjanki, V. R., Cordova, N. I., & Turk-Browne, N. B. (2020, July). Hippocampal evidence of statistical learning from fMRI with awake infants. Poster presented at the International Congress of Infant Studies.
- Ellis, C. T., Yates, T. S., Skalaban, L. J., Bejjanki, V. R., Arcaro, M. J., & Turk-Browne, N. B. (2020, June). Retinotopic mapping with fMRI in awake, behaving infants. Poster presented at the annual meeting of the Vision Sciences Society.
- Yates, T. S., Skalaban, L. J., Ellis, C. T., & Turk-Browne, N. B. (2019, October). Neural approach for understanding event segmentation in early development. Poster presented at the Society for Neuroscience.
- Ellis, C. T., Skalaban, L. J., Yates, T. S., & Turk-Browne, N. B. (2019, October). Attentional engagement of frontoparietal cortex in infant fMRI. Poster presented at the Society for Neuroscience.
- Ellis, C. T., Skalaban, L. J., Yates, T. S., Bejjanki, V. R. Turek, J. S., & Turk-Browne, N. B. (2019, May). Decoding the contents of the developing visual system with fMRI in awake infants. Talk presented at the annual meeting of the Vision Sciences Society.
- Lauer J. E., Yates T. S, Esposito A.G., & Bauer, P.J. (2017, October). Ethnicity moderates children's implicit gender stereotypes about cognitive skills and scholastic aptitude. Poster presented at the annual meeting of the Cognitive Development Society.
- Lauer J. E., Yates T. S., Esposito A.G., & Bauer, P.J. (2018, March). Children's gender and ethnic biases regarding intelligence: An intersectional analysis. Paper presented at the annual meeting of the Society for Personality and Social Psychology.
- Yates T. S., Hogan, A., & Roberts, J.E. (2016, July). Physiological responses to social fear in infants in highrisk anxiety groups. Presentation at the annual Neurodevelopmental Disorders Lab Undergraduate Research Symposium.
- Yates T. S., Scherr J., & Roberts, J.E. (2015, July). Cardiovascular arousal levels for infants in high-risk autism groups. Presentation at the annual Neurodevelopmental Disorders Lab Undergraduate Research Symposium.

Teaching Experience

Fall 2020	Developmental Psychology (Dr. Frank Keil), Teaching Fellow
Spring 2020	Research Methods in Human Neuroscience (Dr. Greg McCarthy), Teaching Fellow
Fall 2019	The Human Brain (Dr. Greg McCarthy), Teaching Fellow
Spring 2018	Advanced Neurophysiology Lab (Dr. Bob Wyttenbach), Lab Assistant
2017-2018	Academic Coach for Emory Office of Undergraduate Education
2015-2016	Quantitative Theory and Methods (Fall 2015 - Fall 2016), Lab Assistant

Mentoring Experience

James Cross (Yale undergraduate and honors thesis student, January 2021-present)

Now: Postgraduate research associate at Yale University

Jared Fel (Yale undergraduate and honors thesis student, January 2021-May 2023)

Now: PhD student in clinical psychology at The New School

Asha Dukkipati (High school student, May 2021-December 2021)

Now: Undergraduate student at University of Southern California

Winnie Chen (High school student, May 2021-August 2021)

Now: Undergraduate student at Stanford University

Shannon Yasuda (Yale undergraduate and honors thesis student, January 2020 - May 2021)

Now: PhD student in cognition and perception at New York University (PI: Moira Dillon)

Reagan Blohowiak (Yale undergraduate, July 2020-December 2020)

Service and Outreach

2022-2023	Diversity Committee Sneak Peek Program Mentor
2022-2023	Yale Wu Tsai Institute Student-Postdoc Committee Social Co-Chair
2021-2022	Emory University Alumni Interviewer
Fall 2021	fMRI Workshop Presenter/Organizer for CNCL lab at Yale
Summer 2021	Panelist for Yale Diversity Committee Sneak Peek Program
Spring 2021	Yale Brain Education Week Volunteer
2020-2022	Yale Undergraduate Research Journal Reviewer
2020-2022	Yale Psychology Department Colloquium Committee
2020-2021	Diversity Committee Sneak Peek Program Mentor
Spring 2019	New Haven Science Fair Judge
2019-2020	Emory University Alumni Interviewer
2019-2020	Yale Psychology Cognitive and Developmental Current Works Committee
2018-2019	Yale Psychology Department Interview Day Committee

Ad Hoc Reviewing

Current Opinions in Behavioral Sciences; The Journal of Neuroscience; Psychological Science; Developmental Science; Developmental Cognitive Neuroscience; NeuroImage; Journal of Experimental Child Psychology; Open Mind: Discoveries in Cognitive Science; Human Brain Mapping