**Tristan S. Yates**

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**Education**

2018-Present *Yale University*

Ph.D. Candidate, 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**

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.**, Skalaban, L. J., Ellis, C. T., Bracher, A. J., Baldassano, C., & Turk-Browne, N. B. (2022, in press). Neural event segmentation of continuous experience in human infants. *Proceedings of the National Academy of Sciences.*

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.**, Ellis, C. T., & Turk-Browne, N. B. (preprint, under review). Neural selectivity for faces in human infants after pandemic lockdown.

Ongchoco, J. D. K., **Yates, T. S.**, & Scholl, B. J. (under review). Event segmentation structures temporal experience: Simultaneous dilation and contraction in rhythmic reproductions.

**Yates, T. S.**, & Lewkowicz, D. J. (preprint, under review). Robust holistic face processing in early childhood during the COVID-19 pandemic.

**Yates, T. S.**, Sherman, B.E., & Yousif, S. R. (under review). More than a moment: What does it mean to call something an ‘event’?

**Yates, T. S.,** Ellis, C.T., & Turk-Browne, N. B. (in prep). Influence of sleep/wake state on functional networks in the infant brain.

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.**, & 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 high- risk 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**

Spring 2021 Computational Methods in Human Neuroscience (Dr. Nick Turk-Browne), Teaching Fellow

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**

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

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

Now: Stanford university undergraduate student

James Cross (Yale undergraduate, January 2021-Present)

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

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

Now: Lab manager at Lab for Developing Mind at NYU (PI: Moira Dillon)

Jared Fel (Yale undergraduate, May 2019-Present)

**Service and Outreach**

2022-present 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

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