

Alexandr Kane York

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EDUCATION

2019-2025 (expected)

University of Michigan-Ann Arbor (UM-Ann Arbor)

Doctor of Philosophy in Neuroscience (in progress)

Advisor: Dr. John Jonides

2015-2019

University of Central Arkansas (UCA)

Bachelor of Arts in Psychology

ACADEMIC PUBLICATIONS

York, A. K., Zhang, H., Sellers, J., Lee, T. G., & Jonides, J. (2024). Physiological evidence for the time-dependent resolution of response conflicts. *Manuscript in preparation*.

York, A. K., Zhang, H., Sellers, J., Lee, T., Jonides, J. (2024). Salience Does Not Equal Capture: Evidence From Chronometry and Modeling. *Manuscript in preparation*.

York, A. K., Zhang, H., Jonides, J. (2024). Suppression of Distractors and Enhancement of Targets, But Not Both. *Manuscript in preparation*.

Zhou, W., **York, A. K.**, Zhang, H., Jonides, J. (2024). Insights into Working Memory Maintenance From Drift Diffusion Modelling in ADHD Populations. *Manuscript in preparation*.

Zhang, H., **York, A. K.**, & Jonides, J. (in press). Attentional capture by abrupt onsets: Foundations and emerging issues. *Journal of Experimental Psychology: Human Perception and Performance*.
<https://doi.org/10.31234/osf.io/3n5gh>

Zhang, H., **York, A. K.**, & Jonides, J. (2024). Less Salient, More Capture: The Curious Case of Abrupt Onsets. *Journal of Vision*, 24(10), 1296-1296.

Mondino, A., Jadidian, A., Toth, B., Hambrecht-Wiedbusch, V. S., Floran-Garduno, L., Li, D., **York, A. K.**, Torterolo, P., Pal, D., Burgess, C., Mashour, G., & Vanini, G. (2024). Regulation of REM Sleep Onset and Homeostasis by Preoptic Glutamatergic Neurons. *bioRxiv*, 2024-10.

Mondino, A., Hambrecht-Wiedbusch, V., Li, D., **York, A. K.**, Pal, D., González, J., Torterolo, P., Mashour, G. A., Vanini, G. (2021). Glutamatergic neurons in the preoptic hypothalamus promote wakefulness, destabilize NREM sleep, suppress REM sleep, and regulate cortical dynamics. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, 41(15), 3462–3478.

Clawson, B. C., Pickup, E. J., Ensing, A., Geneseo, L., Shaver, J., Gonzalez-Amoretti, J., Zhao, M., **York, A. K.**, Kuhn, F. R., Swift, K., Martinez, J. D., Wang, L., Jiang, S., & Aton, S. J. (2021). Causal role for sleep-dependent reactivation of learning-activated sensory ensembles for fear memory consolidation. *Nature Communications*, 12(1), 1200.

Sobel, K. V., Puri, A. M., **York, A. K.** (2020). Visual search inverts the classic Stroop asymmetry. *Acta Psychologica*, 205, 103054

Lee, K. R., Sobel, K. V., **York, A. K.**, & Puri, A. M. (2018). Dissociating parallel and serial processing of numerical value. *Journal of Numerical Cognition*, 4(2), 360-379.

Updated: November 25, 2024

ACADEMIC PRESENTATIONS

- York, A. K.,** Zhang, H., Sellers, J., Lee, T., Jonides, J. (2024, November). *Saliency Does Not Equal Distraction*. Poster presented at the annual Psychonomics conference, New York, NY.
- York, A. K.,** Zhang, H., Sellers, J., Lee, T., Jonides, J. (2024, April). *Evidence of Partial Errors in Conflict Tasks*. Poster presented at the annual Midwestern Psychological Association conference, Chicago, IL.
- York, A. K.,** Zhang, H., Sellers, J., Lee, T., Jonides, J. (2024, April). *Physiological and Computational Insights into Conflict Tasks*. Talk presented to the Neuroscience Graduate Program (weekly seminar) at the University of Michigan, Ann Arbor, MI.
- York, A. K.** (2019, April). *Strength of Association in Spatial Stroop*. Poster presented at the annual Southwestern Psychological Association conference, Albuquerque, NM.
- York, A. K.** (2018, November). *Stroop and Reverse Stroop Effects in Identification and Localization Tasks*. Poster presented at the National Collegiate Honors Council Annual Meeting, Boston, MA.
- York, A. K.** (2018, April). *Stroop and Reverse Stroop Effects in Identification and Localization Tasks*. Poster presented at the annual meeting of the Southwestern Psychological Association, Houston, TX.
- Skinner, B., **York, A. K.,** Padberg, J. (2017, November). *Organization of the retinofugal pathway in the nine-banded armadillo (Dasypus novemcinctus)*. Poster presented at the 47th annual meeting of the Society for Neuroscience, Washington, D.C.
- Skinner, B., **York, A. K.,** Padberg, J. (2017, October). *Organization of the retinofugal pathway in the nine banded armadillo (Dasypus novemcinctus)*. Poster presented at the Annual IDeA Network of Biomedical Research Excellence Conference, Fayetteville, AR.
- York, A. K.** (2017, April). *Reverse Stroop Effect in Visual Search*. Poster presented at the annual meeting of the Southwestern Psychological Association, San Antonio, TX.
- York, A. K.** (2017, March) *Taboo or Community? An Experience with Nudity*. Talk at Issues in the Public Square conference, Conway, AR.

PROFESSIONAL EXPERIENCE

miLEAD Consulting Consultant

Spring 2022-Summer 2024

- Engaged in strategic consulting for tech and healthcare companies, focusing on go-to market strategies for their emerging products
- Delivered comprehensive market analysis, including segmentation and risk assessments to executive level stakeholders
- Successfully executed 2 consulting projects, leading to client satisfaction and their subsequent renewal of contracts with the company

NON-ACADEMIC PUBLICATIONS

York, A. K. (2022, January) *Dopamine and Serotonin: The (Not Just) Happy Chemicals*. Michigan Science Writers (<http://misciwriters.com/>)

York, A. K. (2021, August) *Depression: Physiology to Psychology is Rarely Simple*. Michigan Science Writers (<http://misciwriters.com/>)

GRANTS

Rackham Travel Grant **Fall 2024**
Funded by the Arkansas Department of Higher Education
Awarded \$900 to fund travel to the Psychonomics conference

Rackham Travel Grant **Winter 2024**
Funded by the Arkansas Department of Higher Education
Awarded \$900 to fund travel to the Midwestern Psychological Association conference

Student Undergraduate Research Fellowship **Spring-Fall 2018**
Funded by the Arkansas Department of Higher Education
Awarded \$4000 for the proposal, "The Stroop and reverse Stroop effects in various conditions." from the Arkansas Department of Higher Education

Undergraduate Research Grant **Spring 2018**
Funded by the Psi Chi International Honors Society
Awarded \$1,500 for the proposal, "Robustness of the reverse Stroop effect in localization tasks."

Travel Abroad Grant (TAG) **Summer 2017**
Funded by the Norbert O. Schedler Honors College
Awarded \$2000 to study Spanish in Costa Rica and volunteer at an orphanage for a total of five weeks

Undergraduate Research Grant for Education (URGE) **Fall 2017**
Funded by the Norbert O. Schedler Honors College
Awarded \$365 to present research at the annual meeting of Society for Neuroscience

Undergraduate Research Grant for Education (URGE) **Spring 2017**
Funded by the Norbert O. Schedler Honors College
Awarded \$630 to present research at the annual meeting of the Southwestern Psychological Association

TEACHING

Graduate Teaching Assistant **Fall 2023-Present**
Introduction to Cognitive Psychology
Taught weekly discussion sections over cognitive psychology topics and graded and provided feedback for 75 students

Graduate Teaching Assistant **Winter 2021**
Introduction to Cognitive Science
Taught weekly discussion sections comprising different subjects from cognitive sciences and graded and provided feedback for 75 students

Pedagogical Assistant **Fall 2018**
Core I: Search for the Self
Co-taught a primary literature and group discussion-based course concerning various writers and thinkers engaging with the philosophical questions of self and identity

SERVICE & OUTREACH

Property Manager (Intercooperative Council of Ann Arbor) **Fall 2023-Summer 2024**
Served as a property manager for Baker House for a multi-million dollar non-profit organization

Board of Directors Member (Intercooperative Council of Ann Arbor) **Spring 2021-Spring 2023**
Served as a board representative in a multi-million dollar non-profit organization aimed at offering affordable housing to Ann Arbor university students

Editor and Contributing Writer (MiSciWriters) **Spring 2020-Fall 2021**
Served as a writer and editor for a University of Michigan publication devoted to publishing pieces detailing the latest in science to a lay audience

Scientific Communication Fellow (UM Natural History Museum) **Spring 2020**
Underwent scientific communication training in preparation for presenting my dissertation research to a lay audience

RELATE Participant **Summer 2020**
Attended a series of scientific communication workshops. Produced a video detailing research I performed in the Aton lab intended for a lay audience

Norbert O. Schedler Honors Mentor **Fall 2016-Spring 2017**
Acted as a mentor to incoming Freshmen, helping them acclimate to the university