



HAMID TURKER

POSTDOCTORAL ASSOCIATE

Curriculum Vitae

Work Address:

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July, 2025

EDUCATION

Present
Cornell
United States

2022
Cornell

2018
Cornell

2013
Leiden
The Netherlands

2011
Leiden

POSTDOCTORAL ASSOCIATE

Neurobiology of Learning and Memory Lab of Prof. David Smith

PH.D. IN PSYCHOLOGY

Attention, Memory, Perception Lab of Prof. Klena Swallow

Dissertation: "Acting on behaviorally relevant events and the impact this has on attention & memory"

M.A. IN PSYCHOLOGY

As part of the Ph.D. at Cornell, in the Attention, Memory, Perception Lab

M.SC. IN COGNITIVE NEUROSCIENCE (CUM LAUDE)

Thesis: "Model-based decision costs and model-free precommitment"

BS.C. IN PSYCHOLOGY (CUM LAUDE)

Thesis: "The effect of ambiguous emotions on divestiture aversion"

Minor in Brain and Cognition

Leiden University Medical Center

Thesis: "Inter-trial cognitive control and neurosynchrony of vision"

APPOINTMENTS

2014 - 2015
Leiden

2013
Harvard
United States

2012
Princeton
United States

2011
Leiden

JUNIOR RESEARCHER

Lecturer and research assistant in the department of Psychology

RESEARCH TRAINEE

Visual Attention Lab of Prof. Jeremy Wolfe

VISITING STUDENT RESEARCH COLLABORATOR

Botvinick Lab of Dr. Matthew Botvinick

RESEARCH ASSISTANT

Brain and Development Lab of Prof. Eveline Crone
Through the Royal Netherlands Academy of Arts & Sciences

PUBLICATIONS

Peer-reviewed articles

- Turker, H. B.**, & Smith, D. M. (under review). Prelimbic Medial Prefrontal Cortex Differentiates Match from Non-Match and Signals Various Behavioral Events
- Turker, H. B.**, & Smith, D. M. (in prep). Changes in Prefrontal and Hippocampal Gamma and Beta Power, Phase-Clustering, and Granger Prediction Unfold in a Temporal Sequence on an Odor-Guided Continuous Match-To-Sample Task
- Wu, W., **Turker, H. B.**, Fang, J., Cleland, T. A., Linster, C., & Smith, D. M. (in prep). Neuronal Responses in the Anterior Olfactory Nucleus During a Complex Odor Memory Task
- Turker, H. B.**, Colcombe, S., & Swallow, K. M. (in revision). Shared and Unshared Contributions of LC and VTA to Static Functional Connectivity
- Riley, E., **Turker, H. B.**, Swallow, K., De Rosa, E., & Anderson, A. (2024). [Nonlinear changes in pupillary attentional orienting responses across the lifespan](#). *GeroScience*, 46(1), 1017-1033
- Turker, H. B.** & Swallow, K. M. (2022). [Diffusion Decision Modeling of Retrieval Following the Temporal Selection of Behaviorally Relevant Moments](#). *Computational Brain & Behavior*, 5(3), 302-325
- Swallow, K. M., Broitman, A. W., Riley, E., & **Turker, H. B.** (2022). [Grounding the Attentional Boost Effect in Events and the Efficient Brain](#). *Frontiers in Psychology*, 13:892416
- Moyal, R., **Turker, H. B.**, Luh, W.-M., & Swallow, K. M. (2022). [Auditory Target Detection Enhances Processing and Hippocampal Functional Connectivity](#). *Frontiers in Psychology*, 13:891682
- Richie-Halford, A., **The Fibr Community Science Consortium**, Satterthwaite, T. D., & Rokem, A. (2022). [An Analysis-ready and quality controlled resource for pediatric brain white-matter research](#). *Scientific Data*, 9(1), 616.
- Turker, H. B.**, Riley, E., Luh, W. M., Colcombe, S. J., & Swallow, K. M. (2021). [Estimates of locus coeruleus function with functional magnetic resonance imaging are influenced by localization approaches and the use of multi-echo data](#). *NeuroImage*, 236, 118047.
- Turker, H. B.** & Swallow, K. M. (2019). [Attending to Behaviorally Relevant Moments Enhances Incidental Relational Memory](#). *Memory & Cognition*, 47(1), 1-16

Book chapters

- Nolte, J., & **Turker, H. B.** (2023). [Involving older adults in the data analysis process](#). In A. Urbaniak & A. Wanka (Eds.), *Routledge International Handbook of Participatory Approaches in Ageing Research*. Routledge.
- Nolte, J., & **Turker, H. B.** (2021). [Teaching students how to effectively take notes](#). In K. Armstrong, L. Genova, J. W. Greenlee, & D. Samuel (Eds.), *Teaching gradually: Practical pedagogy for graduate students, by graduate students*. Sterling, VA: Stylus Publishing

AWARDS

2021
2020
2018
2017, 2018, 2019
2015 - 2022
2014
2013
2012
2012

Significant Paper Award - Cornell University
Exceptional Departmental Service Award - Cornell University
Cornell Colman Leadership Program
Cognitive Science Program Travel Award – Cornell University
SAGE Fellowship – Cornell University (awarded to 20% of students)
Socrates – Dutch & Flemish Honour Society
Outbound Study Grant
LUSTRA Research Fund
LUF International Study Fund

CONFERENCES

Turker, H. B., Bulkin, D., & Smith, D. M. (2023). Medial Prefrontal Cortical Neurons Differentiate Match and Non-Match Cues in a Continuous Olfactory Match-to-Sample Task. **Poster** at Society for Neuroscience, Washington D.C.

Wu, W., **Turker, H. B.**, Fang, J., Cleland, T. A., Linster, C., & Smith, D. M. (2023). Neuronal Responses in the Anterior Olfactory Nucleus During a Complex Odor Memory Task. **Poster** at Society for Neuroscience, Washington D.C.

Turker, H. B., Colcombe, S., & Swallow, K. M. (2022, April). Shared and Unshared Contributions of LC and VTA to Static Functional Connectivity. Poster at Cognitive Neuroscience Society, San Francisco, California.

Nolte, J., & **Turker, H. B.** (2021, November). Involving older adults in the data analysis process. **Talk** at the annual meeting of the Gerontological Society of America (virtual).

Riley, E., Cicero, N., **Turker, H. B.**, Swallow, K. M., De Rosa, E., & Anderson, A. (2021, June). Multimodal Evidence for the Use of Pupillary Responses for Evaluating Cognitive Aging in Locus Coeruleus. **Poster** at Organization for Human Brain Mapping (virtual).

Turker, H. B., Moyal, R., & Swallow, K. M. (2021, May). Drift Diffusion Modeling of Intentional and Incidental Temporal Selection of Behaviorally Relevant Moments. **Poster** at Vision Sciences Society, St. Pete Beach, Florida (virtual).

Turker, H. B. & Swallow, K. M. (2020, August). Diffusion Decision Modeling of Incidental Relational Memory for Behaviorally Relevant Moments. **Poster** at Context and Episodic Memory Symposium, Philadelphia, Pennsylvania (virtual).

Broitman, A. W., **Turker, H. B.**, Swallow, K. M. (2020, August). Attending to Behaviorally Relevant Events Disrupts EEG Spectral Subsequent Memory Effects. **Poster** at Context and Episodic Memory Symposium, Philadelphia, Pennsylvania (virtual).

Turker, H. B., Riley, E., Luh, W.-M., Colcombe, S., & Swallow, K. M. (2020, June). Multi-echo fMRI and Localization Method Affect Functional Estimates of the Locus Coeruleus. **Poster** at Organization for Human Brain Mapping, Montreal, Canada (virtual).

Riley, E., **Turker, H. B.**, Swallow, K., De Rosa, E., & Anderson, A. (2019, October). Measuring Age-Related Changes in Locus Coeruleus Intensity and its Relationship to Cognitive Aging. **Poster** at Society for Neuroscience, Chicago, Illinois

Broitman, A. W., **Turker, H. B.**, & Swallow, K. M. (2019, May). The P300 Predicts Subsequent Biomarkers of Recollection and Familiarity. **Poster** at Context and Episodic Memory Symposium, Philadelphia, Pennsylvania.

Turker, H. B. & Swallow, K. M. (2018, November). Increasing Attention to Behaviorally Relevant Moments Facilitates Incidental Relational Memory. **Poster** at Object Perception, Attention, & Memory, New Orleans, Louisiana

Moyal, R., **Turker, H. B.**, Phelps, A., Luh, W.-M., & Swallow, K. M. (2018, November). Behaviorally Relevant Events Modulate Hippocampal Representations and Functional Connectivity. **Poster** at Society for Neuroscience, San Diego, California.

Turker, H. B., Phelps, A., Moyal, R., Swallow, K. M. (2017, August). Auditory Targets Boost Contextual Memory and Increase Repetition Suppression in the Hippocampus. **Poster** presented at 13th International Conference for Cognitive Neuroscience, Amsterdam, The Netherlands.

Turker, H. B., Swallow, K. M. (2017, May). Relational memory is enhanced in the attentional boost effect. **Poster** presented at Vision Sciences Society, St. Pete Beach, Florida.

Swallow, K. M., **Turker, H. B.**, Moyal, R., Li, G. (2016, November). Attending to auditory targets enhances visual perceptual processing in ventral visual cortex. **Poster** presented at Society for Neuroscience, San Diego, California.

SERVICE & DEI

2017-Present

ASSISTANT CURATOR OF THE WILDER BRAIN COLLECTION Cornell University

I help maintain all specimens in Cornell's internationally famous brain collection. I also provide multiple "tours" of the exhibit throughout the year to elementary and secondary school students, as well as to undergraduate and graduate students at Cornell who wish to learn about the brain collection or behavioral and brain sciences more broadly.

In particular, this involves multiple events per year through various outreach programs that aim to get underrepresented groups interested in science, such as **Community Neuroscience Initiative, Upward Bound, Expanding Your Horizons, Brain Days, Kids Science Day**, and **GRASSHOPR**.

2023-2024

NEUROBIOLOGY & BEHAVIOR HONORS THESIS COMMITTEE Cornell University

Reviewer on the honors thesis award committee for the undergraduate honors program in the Neurobiology and Behavior section of the Biological Sciences major.

2017-2022

GRADUATE STUDENT AMBASSADOR Cornell University

I participated in year-round on and off-campus events that welcome new grads and postdocs to Cornell. Given my own background, my personal focus was on international students and those students of historically underrepresented groups (specifically, helping Dutch and Turkish students navigate a new culture and visa-related matters).

2019-2021

NEISSER LECTURE COMMITTEE Cornell University

The Neisser Lecture (with its inaugural lecture in 2018 and me as the grad student representative from '19-'21) allows graduate students and postdocs to select and invite a speaker whom we all admire (based on their research as well as science outreach). I functioned as the primary graduate student representative on the committee that selected and invited the speakers.

2019

T.A. RYAN AWARD COMMITTEE Cornell University

One of three judges on the T.A. Ryan Award committee. The T. A. Ryan Award is given to the student who produced the best honors thesis in a given year.

2011-2012

VOLUNTEER AT CHOICE FOR YOUTH

Dutch student-led organization advocating for meaningful and inclusive participation of youth in policy making relating to reproductive rights.

Ad hoc review

Cerebral Cortex
Consciousness and Cognition
Experimental Aging Research
Frontiers in Psychology: Cognition
Journal of Exp. Psychology: Learning, Memory, & Cognition
Journal of Geriatric Psychiatry and Neurology
Scientific Reports