

# Matthew K. Robison

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## Professional Appointments

*Assistant Professor* 2020-present  
Department of Psychology  
The University of Texas at Arlington

*Postdoctoral Research Associate* 2018-20  
Memory and Attention Control Laboratory  
Arizona State University

## Education

*University of Oregon*, Ph.D. Psychology 2018  
*University of Oregon*, M.S. Psychology 2014  
*University of Notre Dame*, B.B.A. Entrepreneurship, Psychology 2013

## Extramural Research Funding (Funded)

*Measuring Change in the Relations Amongst Cognitive, Health, and Socioemotional Factors at the Single-Subject Level and Improving Prediction of Critical Outcomes* 2023-2026  
U.S. Army Research Institute (W911NF-23-1-0300)  
Total Amount: \$1,707,828  
Role: Co-Principal Investigator (Co PIs: Gene A. Brewer & Holly P. O'Rourke; Subaward Amount: \$479,693)

*Behavioral and Physiological Indicators of Vigilance and Cognitive Fatigue* 2022-25  
U.S. Naval Research Laboratory (N00173-22-2-C006)  
Amount: \$325,000  
Role: Principal Investigator

*Using Cognitive Offloading to Mitigate Age-Related Declines in Prospective Memory* 2022-26  
National Institutes of Health (R16GM146705)  
Amount: \$770,000  
Role: Co-Investigator (PI: Hunter Ball)

## **Extramural Research Funding (Pending)**

*Impact of Transcranial Photobiomodulation on Neurocognitive and Physiological Health in Non-Hispanic Black Individuals with Elevated Risk for AD/ADRD* 2024-2026

National Institute of Aging

Amount: \$429,560

Role: Co-Investigator

*Cognitive and Psychophysiological Mechanisms Underlying Individual Differences in Attention Control* 2023-2026

Office of Naval Research (Young Investigator Program)

Amount: \$607,437

Role: Principal Investigator

*Improving technical capabilities and expanding capacities of eye-tracking equipment for psychophysiological research* 2023-24

Department of Defense (Defense University Research Instrumentation Program)

Amount: \$ 171,570

Role: Principal Investigator

## **Intramural Research Funding (Funded)**

*The Effect of Transcranial Photobiomodulation on Indices of Neurocognitive and Physiological Health in Middle-Aged Non-Hispanic Black Individuals* 2023-2024

The University of Texas at Arlington (Interdisciplinary Research Program)

Amount: \$20,000 (Awarded)

Role: Co-Investigator

*Leveraging multimodal biometric sensing to detect and correct attention and memory failures* 2022-23

The University of Texas at Arlington (Interdisciplinary Research Program)

Amount: \$20,000 (Awarded)

Role: Principal Investigator

*Low-cost eye-tracking equipment for psychological research* 2019

Arizona State University (Cialdini Leap Forward Fund)

Amount: \$7,500 (Awarded)

Role: Co-Investigator

## Honors and Awards

Named a <i>Champion of Experiential Learning</i> by UT-Arlington's Division of Student Affairs	2023
Summer Faculty Fellowship (\$16,500)	2023   Office of Naval Research
Summer Faculty Fellowship (\$16,500)	2022   Office of Naval Research
General University Scholarship (\$3,000)	2017   University of Oregon
Clarence and Lucille Dunbar Scholarship (\$2,000)	2016   University of Oregon
Graduate Travel Award (\$1,000)	2015   Psychonomic Society
Clarence and Lucille Dunbar Scholarship (\$2,500)	2014   University of Oregon
Undergraduate Research Opportunity Program (\$4,500)	2012   University of Notre Dame

## Publications

*Impact (Google scholar metrics): total citations = 2,272; h-index = 23, i10-index = 37*

<sup>+</sup>denotes undergraduate student co-author

- Robison, M. K., Celaya, X. C., Ball, B. H., & Brewer, G. A. (2023). Task sequencing does not systematically affect the factor structure of cognitive abilities. *Psychonomic Bulletin & Review*.
- Garner, L. D., Shuman, J., & Robison, M. K. (2023). Piece-rate time-based incentives improve sustained attention. *Journal of Applied Research in Memory and Cognition*.
- Robison, M. K. & Nguyen, B. N.<sup>+</sup> (2023). Competition and reward structures nearly eliminate time-on-task performance decrements: Implications for theories of vigilance and mental effort. *Journal of Experimental Psychology: Human Perception and Performance*, 49(9), 1256 – 1270. [Named an Editor's Choice article by the American Psychological Association].
- Robison, M. K., Ralph, K. J., Gondoli, D. M., Torres, A., Campbell, S., Brewer, G. A., & Gibson, B. S. (2023). Testing locus coeruleus-norepinephrine accounts of working memory, attention control, and fluid intelligence. *Cognitive, Affective, & Behavioral Neuroscience*, 23, 1014 – 1058.
- Robison, M. K., & Campbell, S. (2023). Baseline pupil diameter does not correlate with fluid intelligence. *Psychonomic Bulletin & Review*.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2023). Oculometric indicators of individual differences in preparatory control during the antisaccade task. *Journal of Experimental Psychology: Human Perception and Performance*, 49(2), 159 - 176.
- Robison, M. K. (2023). Abrupt vs. gradual visual onsets in go/no-go measures of sustained attention. *Attention, Perception, & Psychophysics*, 85, 9 - 22.
- Benitez, V. L. & Robison, M. K. (2022). Pupillometry as a window into young children's sustained attention. *Journal of Intelligence*, 10(4), 107. [Named Editor's Choice Article]
- Unsworth, N., Robison, M. K., & Miller, A. L. (2022). On the relation between working memory capacity and the antisaccade task. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 48(10), 1420 - 1447.
- Robison, M. K., Coyne, J. T., Sibley, C., Brown, N. L., Neilson, B., & Foroughi, C. (2022). An

- examination of relations between baseline pupil measures and cognitive abilities. *Psychophysiology*, 59, e14124.
- Unsworth, N., Robison, M. K., & Miller, A. L. (2022). The influence of working memory capacity and lapses of attention for variation in error monitoring. *Cognitive, Affective, & Behavioral Neuroscience*, 22(3), 450-466.
- Robison, M. K., Diede, N. T., Nicosia, J., Ball, B. H., & Bugg, J. M. (2022). A multimodal analysis of sustained attention in younger and older adults. *Psychology & Aging*, 37(3), 307-325.
- Robison, M. K., Trost, J. M., Schor, D., Gibson, B. S., & Healey, M. K. (2022). Pupillary correlates of individual differences in long-term memory. *Psychonomic Bulletin & Review*, 29, 1355-1366.
- Robison, M. K., & Brewer, G. A. (2022). Individual differences in working memory capacity, attention control, fluid intelligence, and pupillary measures of arousal. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 48(9), 1296-1310.
- Ball, B. H., Robison, M. K., Coulson, A.,<sup>+</sup> & Brewer, G. A. (2022). Individual differences in disqualifying monitoring underlie false memories across different paradigms. *Memory & Cognition*, 50, 751-764.
- Robison, M. K., Obulasetty, M. O.,<sup>+</sup> Wingert, K. M., Blais, C., & Brewer, G. A. (2022). The effect of binaural beat stimulation on sustained attention. *Psychological Research*, 86(3), 808-822.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2021). No consistent correlation between baseline pupil diameter and cognitive abilities after controlling for confounds—A comment on Tsukahara and Engle (2021). *Cognition*, 215, 104825.
- Robison, M. K., Ellis, D. M., Pitaes, M. M., Karoly, P., & Brewer, G. A. (2021). Acute pain impairs sustained attention. *Journal of Experimental Psychology: Applied*, 27(3), 563-577.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2021). Are individual differences in attention control related to working memory capacity? A latent variable mega-analysis. *Journal of Experimental Psychology: General*, 150(7), 1332-1357.
- Unsworth, N., Robison, M. K., & Miller, A. L. (2021). Individual differences in lapses of attention: A latent variable analysis. *Journal of Experimental Psychology: General*, 150(7), 1303-1331.
- Robison, M. K., Unsworth, N., & Brewer, G. A. (2021). Examining the effects of goal-setting, feedback, and incentives on sustained attention. *Journal of Experimental Psychology: Human Perception and Performance*, 47(6), 869-891.
- Ellis, D.M., Robison, M. K., & Brewer, G. A. (2021). The cognitive underpinnings of multiply-constrained problem-solving. *Journal of Intelligence*, 7, 9.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2021). Is working memory capacity related to baseline pupil diameter? *Psychonomic Bulletin & Review*, 28, 228-237.
- Chowdry, M. S. N., Dutta, A., Robison, M. K., Blais, C., Brewer, G. A., & Bliss, D. W. (2020). Deep neural network for visual stimulus-based reaction time. *Sensors*, 20(21), 6090.
- Robison, M. K., & Brewer, G. A. (2020). Individual differences in working memory capacity and the regulation of arousal. *Attention, Perception, & Psychophysics*, 82, 3273-3290.

- Robison, M. K., Miller, A. L., & Unsworth, N. (2020). A multi-faceted approach to understanding individual differences in mind-wandering. *Cognition*, *198*, 104078.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2020). Individual differences in lapses of sustained attention: Oculometric indicators of intrinsic alertness and preparatory control. *Journal of Experimental Psychology: Human Perception and Performance*, *46*(6), 569-592.
- Chowdry, M. S. N., Dutta, N., Robison, M. K., Blais, C., Brewer, G. A., & Bliss, D. W. (2020). A generalized model to estimated reaction time corresponding to visual stimulus using single-trial EEG. *42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. Montréal, QC, Canada. *Peer-reviewed conference paper*.
- Unsworth, N., & Robison, M. K. (2020). Working memory capacity and sustained attention: A cognitive-energetic perspective. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *46*(1), 77 – 103.
- Unsworth, N., Robison, M. K., & Miller, A. L. (2019). Individual differences in baseline oculometrics: Examining variation in baseline pupil diameter, spontaneous eye blink rate, and fixation stability. *Cognitive, Affective, & Behavioral Neuroscience*, *19*, 1074 – 1093.
- Unsworth, N., Miller, A. L., & Robison, M. K. (2019). Individual differences in encoding strategies and free recall dynamics. *The Quarterly Journal of Experimental Psychology*, *72*, 2495 – 2508.
- Robison, M. K., Miller, A. L., & Unsworth, N. (2019). Examining the effects of probe frequency, response options, and framing within the thought-probe method. *Behavior Research Methods*, *51*, 398 – 408.
- Robison, M. K., & Unsworth, N. (2019). Pupillometry tracks fluctuations in working memory performance. *Attention, Perception, & Psychophysics*, *81*, 407 – 419.
- Unsworth, N., & Robison, M. K. (2018). Tracking mind-wandering and arousal state with pupillometry. *Cognitive, Affective, & Behavioral Neuroscience*, *18*, 638 – 664.
- Unsworth, N., Robison, M. K., & Miller, A. L. (2018). Pupillary correlates of fluctuations in sustained attention. *Journal of Cognitive Neuroscience*, *30*, 1241 – 1253.
- Adam, K. C. S., Robison, M. K., & Vogel, E. K. (2018). Contralateral delay activity tracks fluctuations in working memory performance. *Journal of Cognitive Neuroscience*, *30*, 1229 – 1240.
- Robison, M. K., Miller, A. L., & Unsworth, N. (2018). Individual differences in working memory capacity and filtering. *Journal of Experimental Psychology: Human Perception and Performance*, *44*(7), 1038 – 1053.
- Unsworth, N., & Robison, M. K. (2018). Tracking working memory maintenance with pupillometry. *Attention, Perception, & Psychophysics*, *80*, 461 – 484.
- Robison, M. K., & Unsworth, N. (2018). Cognitive and contextual correlates of spontaneous and deliberate mind-wandering. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *44*(1), 85 – 98.
- Unsworth, N., & Robison, M. K. (2017). The importance of arousal for variation in working memory capacity and attention control: A latent variable pupillometry study. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *43*, 1962 – 1987.

- Robison, M. K., & Unsworth, N. (2017). Individual differences in working memory capacity predict learned control over attentional capture. *Journal of Experimental Psychology: Human Perception and Performance*, 43(12), 1912 – 1924.
- Unsworth, N. & Robison, M. K. (2017). A locus coeruleus-norepinephrine account of individual differences in working memory capacity and attention control. *Psychonomic Bulletin & Review*, 24, 1282 – 1311.
- Robison, M. K., & Unsworth, N. (2017). Variation in the use of cues to guide attention in visual working memory. *Attention, Perception, & Psychophysics*, 79, 1652 – 1665.
- Robison, M. K., McGuirk, W. P., & Unsworth, N. (2017). No evidence for enhancements to visual working memory with transcranial direct current stimulation to prefrontal or posterior parietal cortices. *Behavioral Neuroscience*, 131(4), 277 – 288.
- Robison, M. K., & Unsworth, N. (2017). Working memory capacity and mind-wandering during low-demand cognitive tasks. *Consciousness and Cognition*, 52, 47 – 54.
- Unsworth, N., & Robison, M. K. (2017). Pupillary correlates of covert shifts of attention during working memory maintenance. *Attention, Perception, & Psychophysics*, 79, 782 – 795.
- Robison, M. K., & Unsworth, N. (2017). Individual differences in working memory capacity and resistance to belief bias in syllogistic reasoning. *The Quarterly Journal of Experimental Psychology*, 70, 1471 – 1484.
- Robison, M. K., Gath, K. I.,<sup>+</sup> & Unsworth, N. (2017). The neurotic wandering mind: An individual differences investigation of neuroticism, mind-wandering, and executive control. *The Quarterly Journal of Experimental Psychology*, 70, 649 – 663.
- Robison, M. K., & Unsworth, N. (2017). Working memory capacity, strategic allocation of study time, and value-directed remembering. *Journal of Memory and Language*, 93, 231 – 244.
- Unsworth, N., & Robison, M. K. (2016). Pupillary correlates of lapses of sustained attention. *Cognitive, Affective, & Behavioral Neuroscience*, 16, 601 – 615.
- Robison, M. K., & Unsworth, N. (2016). Do participants differ in their cognitive abilities, task motivation, or personality characteristics as a function of time of participation? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 42(6), 897 – 914.
- Unsworth, N., & Robison, M. K. (2016). The influence of lapses of attention on working memory capacity. *Memory & Cognition*, 44, 188 – 196.
- Robison, M. K., & Unsworth, N. (2015). Working memory capacity offers resistance to mind-wandering and external distraction in a context-dependent manner. *Applied Cognitive Psychology*, 29, 680 – 690.
- Unsworth, N. & Robison, M. K. (2015). Individual differences in the allocation of attention to items in working memory: Evidence from pupillometry. *Psychonomic Bulletin & Review*, 22, 757 – 765.
- Gibson, B. S., Gondoli, D. M., Johnson, A. C., & Robison, M. K. (2014). Recall initiation strategies must be controlled in training studies that use immediate free recall tasks to measure the components of working memory capacity across time. *Child Neuropsychology*, 20, 536-556.

## Manuscripts under review

- Robison, M. K., Miller, A. L., Wiemers, E., Ellis, D. M., Unsworth, N., Redick, T. R., & Brewer, G. A. (Under review). What makes working memory work? A multifaceted account of the predictive power of working memory capacity. Submitted to *Journal of Experimental Psychology: General*.
- Fernando, F., Robison, M. K., & Maia, P. (Under review). Analysis of goal, feedback and rewards on sustained attention via machine learning. Submitted to *Attention, Perception, & Psychophysics*.
- Strayer, D., Robison, M. K., & Unsworth, N. (Under review). Effects of goal-setting on sustained attention and attention lapses. Submitted to *Attention, Perception, & Psychophysics*.
- Robison, M. K., & Garner, L. D. (Under review). Pupillary correlates of individual differences in *n*-back task performance. Submitted to *Attention, Perception, & Psychophysics*.
- Torres, A., Robison, M. K., McClure, S. M., & Brewer, G. A. (Under review). An experimental evaluation of the influence of transcranial direct current stimulation to the trigeminal nerve on attention and arousal. Submitted to *Cognitive, Affective, & Behavioral Neuroscience*.

## Manuscripts in preparation

- Robison, M. K., Brewer, G. A., Redick, T. S., & Unsworth, N. (In preparation). *Sample size guidelines for latent variable analyses of cognitive abilities*.

## Conference Presentations and Invited Talks

- Robison, M. K., Garner, L. D., & Campbell, S. (2023, August). Piece-rate time-based incentive structures improve motivation and sustained attention. *Paper presentation at the 14th Biennial Meeting of the Society for Applied Research in Memory and Cognition, Nagoya, Japan*.
- Robison, M. K. (2023, March). The science of memory and attention. *Invited talk given to the North Dallas Early Childhood Parent-Teacher Association*.
- Robison, M. K. (2022, November). Individual differences in sustained attention: Both ability and motivation matter. *Poster presentation at the Annual Meeting of the Psychonomic Society*.
- Campbell, S., & Robison, M. K. (2022, November). Examining working memory precision estimates as an individual difference. *Poster presentation at the Annual Meeting of the Psychonomic Society*.
- Torres, A. S., Brewer, G. A., Robison, M. K., McClure, S., & Helms Tillery, S. (2022, November). An experimental evaluation of transcranial direct current stimulation of the trigeminal nerve on attention and arousal. *Poster presentation at the Annual Meeting of the Psychonomic Society*.
- Strayer, D. L., Robison, M. K., & Unsworth, N. (2022, November). Effects of goal-setting on sustained attention and attention lapses. *Poster presentation at the Annual Meeting of the Psychonomic Society*.
- Robison, M. K. (2022, April). Understanding controlled attention through pupillometry. *Invited talk given to the Frontiers of BrainHealth series at the Center for BrainHealth, University of Texas at Dallas*.
- Robison, M. K., (2021, September). Using pupillometry to understand individual differences in

cognitive abilities. *Invited talk given to the Attention & Working Memory Lab, Georgia Institute of Technology.*

- Torres, A. S., Robison, M. K., & Brewer, G. A. (2021, March). Measurement properties of pupil dynamics. *Poster presentation at the annual meeting of the Cognitive Neuroscience Society.*
- Robison, M. K., Gibson, B. S., Healey, M. K., Schor, D., & Trost, J. M. (2020, November). Individual differences in arousal regulation and long-term memory abilities. *Oral presentation at the 61st Annual Meeting of the Psychonomic Society (Virtual).*
- Robison, M. K. (2020, October). A multimodal investigation of sustained attention. *A presentation to the Cognition, Brain, and Behavior area at the University of Notre Dame.*
- Brewer, G. A., Robison, M. K., Ellis, D. M., & Karoly, P. (2019, March). Acute pain disrupts sustained attention. *Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- Robison, M. K., & Unsworth, N. (2018, November). Pupillometry tracks fluctuations in working memory performance. *Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.*
- Robison, M. K., & Unsworth, N. (2017, November). Individual differences in working memory capacity and filtering. *Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.*
- Robison, M. K. (2017, September). Working memory capacity: Multiple mechanisms of control. *Invited talk given to the Cognition, Brain, and Behavior group at the University of Notre Dame.*
- Robison, M. K. (2016, October). Cognition, disposition, and context: A multifaceted approach to mind-wandering. *Presentation of Preliminary Exams at the University of Oregon.*
- Robison, M. K., Gath, K. I., & Unsworth, N. (2015, November). The neurotic wandering mind: An individual differences investigation of neuroticism, mind-wandering, and executive control. *Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL. (Graduate Travel Award recipient)*
- Robison, M.K. (2014, October). Mind-wandering and distraction in silent and noisy studying environments. *Presentation of a First-Year Project at the University of Oregon.*
- Robison, M.K. & Gibson, B.S. (2013, May). The role of recall initiation strategies in the measurement of primary and secondary memory in the context of a working memory training program. *Poster and oral presentation at the Department of Psychology Undergraduate Research Symposium, University of Notre Dame.*

## **Professional service**

Consulting Editor, *Psychonomic Bulletin & Review*

2021 – present

Ad Hoc Reviewer: *Acta Psychologica; Applied Cognitive Psychology; Attention, Perception, and Psychophysics; Behavior Research Methods; Biological Psychology; Brain Topography; Consciousness and Cognition; Cognition; Cognitive Processing; Cognitive Psychology; Cortex; Discourse Processes; Frontiers in Psychology; Heliyon; International Journal of Psychology; Journal of Applied Research in Memory and Cognition; Journal of Educational Psychology; Journal of Experimental Child Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychol-*

*ogy: General; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Intelligence; Journal of Neuroscience Methods; Journal of Vision; Language and Linguistics Compass; Learning & Behavior; Learning and Individual Differences; Memory; Memory & Cognition; Neuropsychologia; PCI Registered Reports; Perspectives in Psychological Science; PLoS ONE; Psychology & Aging; Psychonomic Bulletin & Review; Psychophysiology; Research in Developmental Disabilities; The Quarterly Journal of Experimental Psychology; Scientific Reports; Sensors*

## **Departmental Service**

Graduate Curriculum Committee	2022 - present
Developmental Psychology Search Committee	2022 - 2023
Cognitive Neuroscience Faculty Search Committee	2016-17
Graduate Student Representative	

## **Advising**

### Doctoral Dissertation Committees

Tommaso Viola	2023
Phil Peper	2023
Maxine Geltmeier	2021

### Master's Thesis Committees

James Lo	2023
Haein Won	2023
Nasima Subedi	2023
Stephen Campbell	2022
Durna Alakbarova	2021

### Honors Thesis Advising

Jessica Nwanko (UT-Arlington)	2023
Janine Shuman (UT-Arlington)	2023
Kiera Wingo (UT-Arlington)	2022
Olivia Anchondo (UT-Arlington)	2021
Ben Pope (Arizona State)	2020
Faith Brown (Arizona State)	2020
Deanna Strayer (Arizona State)	2019
Dylan Vas (University of Oregon)	2017

Katherine Gath (University of Oregon)	2015
Kyung Hoon Jeong (University of Oregon)	2015
Christian Arenas (University of Oregon)	2014

### **Unfunded Research Proposals**

*Testing the trait stability and domain-generalty of arousal regulation and phasic responsiveness*

National Science Foundation

Amount: \$856,330

*Implementing low-cost eye-tracking and wearable actigraphy to detect abnormal locus coeruleus functioning, sleep disruptions, and cognitive decline for early detection of dementia*

National Institutes of Health

Amount: \$2,043,718

*A latent state-trait analysis of arousal regulation and cognition*

National Science Foundation

Amount: \$838,755

*Predictive Modeling of Student Engagement with Virtual and Online Learning*

James S. McDonnell Foundation Opportunity Program

Amount: \$250,000

*LC-NE Regulation and Attention*

NIH Ruth L. Kirschstein NRSA Individual Postdoctoral Fellowship

Amount: \$187,662

*The Impact of Physical Fatigue on the Cognitive Health of Student Athletes*

ASU Global Sport Institute

Amount: \$20,000

### **Teaching**

Multivariate Data Analysis - Graduate	2022-2023
Advanced Topics in Cognitive Science	2022-2023
Learning and Memory	2015
Human Performance	2014

## References

Nash Unsworth, Professor, University of Oregon

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[gene.brewer@asu.edu](mailto:gene.brewer@asu.edu)

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Samuel McClure, Professor, Arizona State University

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