

Curriculum Vitae

A. Caglar Tas

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University of Tennessee
Department of Psychology
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Academic Appointments

August 2019 – present	Assistant Professor Department of Psychology, University of Tennessee – Knoxville
August, 2016 – August 2019	Post-doctoral Teaching Associate/Research Assistant Professor Department of Psychology, University of Tennessee – Knoxville
August, 2014 – August, 2016	Lecturer Department of Psychology, University of Tennessee – Knoxville

Education

Ph.D.	University of Iowa, 2015 Psychology, Cognition and Perception training area Thesis title: “The effect of visual stability in representations of pre- and post-saccadic objects” Advisor: Andrew Hollingworth, Co-advisor: Cathleen M. Moore
M.A.	Bogazici University, Turkey, 2008 Cognitive Psychology Thesis title: “Eye movement patterns for own- and other-race faces” Advisor: Ayşecan Boduroğlu
B.A.	Bogazici University, Turkey, 2005 Psychology (with Honors)

Awards

2019	NEI Early Career Scientist Travel Award, Vision Sciences Society
2015	Travel grant, 7 th Bernstein Workshop on Active Perceptual Memory, Berlin, Germany

Research

Research Interests

Transsaccadic stability, visual working memory, eye movements, visual attention, visual updating

Research Positions

2008 – 2014	Graduate Research Assistant Supervisor: Andrew Hollingworth
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2006 – 2008 Graduate Research Assistant
Supervisor: Ayşecan Boduroğlu

2003 – 2005 Undergraduate Research Assistant
Supervisor: Ali I. Tekcan

Publications

* denotes a supervised PhD student; † denotes a supervised undergraduate student

Refereed Publications

*Parker, J. L. & **Tas, A. C.** (under revision). Visual stability in scenes is determined by the saccade target object.

Tas, A. C. & *Parker, J. L. (2023). The role of color in transsaccadic object correspondence. *Journal of Vision*, 23(8): 5, 1-21. <https://doi.org/10.1167/jov.23.8.5>

Kerr-German, A., **Tas, A. C.**, Buss, A. T. (2023). A multi-method approach to addressing the toddler data desert in attention research. *Cognitive Development*, 65, 101293. <https://doi.org/10.1016/j.cogdev.2022.101293>

*Kinder, K. T., Buss, A. T., & **Tas, A. C.** (2022). Tracking flanker task dynamics: Evidence for continuous attentional selectivity. *Journal of Experimental Psychology: Human Perception and Performance*, 48(7), 771-781. <http://doi.org/10.1037/xhp0001023>

Tas, A. C., Mordkoff, T. J., & Hollingworth, A. (2021). Object-mediated overwriting across saccades, *Journal of Vision*, 21(2), 3. <http://doi.org/10.1167/jov.21.2.3>

Tas, A. C., Costello, M. C., & Buss, A. T. (2020). Age-related decline in visual working memory: The effect of non-target objects during a delayed estimation task. *Psychology and Aging*, 35(4), 565-577. <http://doi.org/10.1037/pag0000450>

Tas, A. C., Luck, S. J., & Hollingworth, A. (2016). The relationship between visual attention and visual working memory encoding: A dissociation between covert and overt orienting. *Journal of Experimental Psychology: Human Perception and Performance*, 42(8), 1121-1138. <http://doi.org/10.1037/xhp0000212>

Tas, A. C., Moore, C. M., & Hollingworth, A. (2012). An object-mediated updating account of insensitivity to transsaccadic change. *Journal of Vision*, 12:18. <http://doi.org/10.1167/12.11.18>

Tas, A. C., Dodd, M. D., & Hollingworth, A. (2012). The role of surface feature continuity in object-based inhibition of return. *Visual Cognition*, 20, 29-47. <http://doi.org/10.1080/13506285.2011.626466>

Tekcan, A. I., **Tas, A. C.**, Topcuoglu, V., & Yucel, B. (2008). Memory bias in anorexia nervosa: Evidence from directed forgetting. *Journal of Behavior Therapy and Experimental Psychiatry*, 39, 369-380. <http://doi.org/10.1016/j.jbtep.2007.09.005>

Erdogan, A., Baran, B., Avlar, B., **Tas, A. C.**, & Tekcan, A. I. (2008). On the persistence of positive events in life scripts. *Applied Cognitive Psychology*, 22, 95-111. <http://doi.org/10.1002/acp.1363>

Manuscripts in Preparation

*Mugno, M. K. P. & **Tas, A. C.** (in preparation). Investigating the mechanisms guiding negative attentional templates.

Tas, A. C., *Mugno, M. K. P., *Parker, J. L. (in preparation). Action relevance modulates selection-for-action effects in visual working memory.

*Defenderfer, J. & **Tas, A. C.** (in preparation). Change in pupil size reveals impact of simulated-cochlear implant

speech on listening effort.

Book Chapter

Tekcan, A. I. & **Tas, A. C.** (2008). Yeme bozukluğunda bilişsel süreçler. [Cognitive processes in eating disorders]. In M. Irak (Ed.), *Psikopatolojide bilgi işleme süreçleri: Kuramdan uygulamaya [Information processing in psychopathology: From theory to application]*. Ankara: Hekimler Yayın Birliği.

Published Conference Proceedings

*Parker, J. L., & **Tas, A. C.** (2022). Visual stability in naturalistic scenes. Book of Abstracts of the 21st European Conference on Eye Movements, 21-25 August 2022, in Leicester, UK. *Journal of Eye Movement Research*. <https://doi.org/10.16910/jemr.15.5.2>

Tas, A. C. & Hollingworth, A. (2019). Transsaccadic perception depends on object-based updating. Book of Abstracts of the 20th European Conference on Eye Movements, 18-22 August 2019, in Alicante, Spain. *Journal of Eye Movement Research*. <https://doi.org/10.16910/jemr.12.7.1>

Tas, A. C., *Kinder, K., Eschman, B., Ross-Sheehy, S., & Buss, A. (2019, August). The role of VWM in transsaccadic updating: An fNIRS study. *Perception*, 48(2S), 156-157.

Tas, A. C. & Hollingworth, A. (2015). The role of visual stability in representations of pre- and post-saccadic objects. *Perception*, 44(S1), 271.

Tas, A. C., Moore, C. M., & Hollingworth, A. (2014). The representation of the saccade target object depends on visual stability. *Visual Cognition*, 22, 1042-1046.

Tas, A. C. & Hollingworth, A. (2013). Automatic encoding of the saccade target into visual working memory. In K. Holmqvist, F. Mulvey, & R. Johansson (Eds.), Book of Abstracts of the 17th European Conference on Eye Movements, 11-16 August 2013, in Lund, Sweden. *Journal of Eye Movement Research*, 6, 75.

Tas, A. C., Luck, S. J., & Hollingworth, A. (2011). The automatic encoding of distractors into VWM through overt, but not covert, attention. *Visual Cognition*, 19, 1331-1335.

Tas, A. C., Dodd, M. D., & Hollingworth, A. (2010). The interaction of surface feature and spatiotemporal continuity in object-based inhibition of return. *Visual Cognition*, 18, 141-144.

Scholarly Presentations

Invited Talks

Tas, A. C. (October, 2021). How do we represent objects across saccadic eye movements? Virtual talk presented for Cognitive Colloquium, Purdue University, West Lafayette, IN.

Tas, A. C. (March, 2020). Dissociable roles of overt and covert attention in automatic encoding of items in visual working memory. Virtual talk presented for Cognitive Science Research Symposium, Metro State University, Saint Paul, MN.

Tas, A. C. & Buss, A. T. (March, 2020). Neuroimaging and eye-tracking methods. Virtual talk presented for Cognitive Science Research Symposium, Metro State University, Saint Paul, MN.

Oral Presentations

*Parker, J. L., & **Tas, A. C.** (2022, August). Visual stability in naturalistic scenes. Talk presented at the 21st European Conference on Eye Movements, Leicester, UK.

*Parker, J. L., & **Tas, A. C.** (2022, May). Visual stability in naturalistic scenes. Talk presented at the Annual Meeting of the Vision Science Society.

Tas, A. C. & Hollingworth, A. (2019, August). Transsaccadic perception depends on object-based updating. Talk presented at the 20th European Conference on Eye Movements, Alicante, Spain.

- Tas, A. C.** & Hollingworth, A. (2015, August). The role of visual stability in representations of pre- and post-saccadic objects. Talk presented at the 38th European Conference on Visual Perception, Liverpool, UK.
- Tas, A. C.**, Moore, C. M., & Hollingworth, A. (2014, November). The representation of the saccade target object depends on visual stability. Talk presented at the 22nd Annual Workshop of Object Perception, Attention, and Memory, Long Beach, CA.
- Tas, A. C.** & Hollingworth, A. (2013, August). Automatic encoding of the saccade target into visual working memory. Talk presented at the 17th European Conference on Eye Movements, Lund, Sweden.
- Tas, A. C.**, Luck, S. J., & Hollingworth, A. (2011, November). The automatic encoding of distractors into VWM through overt, but not covert, attention. Talk presented at the 19th Annual Workshop of Object Perception, Attention, and Memory, Seattle, WA.
- Tas, A. C.**, Dodd, M. D., Hollingworth, A. (2009, November). The interaction of surface feature and spatiotemporal continuity in object-based inhibition of return. Talk presented at the 17th Annual Workshop on Object Perception, Attention, and Memory, Boston, MA.

Poster Presentations

- *Parker, J. L., *Embrey, M., & **Tas, A. C.** (2023, May). Saccadic adaptation changes perception of the saccade target object. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Mugno, M. & **Tas, A. C.** (2023, May). Task design effects on negative search templates. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Forouzandehfar, G., †Hensley, K. G., & **Tas, A. C.** (2023, May). The effects of saccades on visual working memory representations. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Kinder, K. T., **Tas, A. C.**, & Buss, A. T. (2022, May). Isolating interference and facilitation effects in the flanker task: A Mouse-tracking approach. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Mugno, M., *Parker, J. L., *Kinder, K. T. & **Tas, A. C.** (2022, May). The mechanisms of selection-for-action on visual working memory representations. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Defenderfer, J., †Son, J., **Tas, A. C.**, & Buss, A. T. (2022, May). An Investigation of listening effort with concurrent fNIRS and pupillometry. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- †Son, J., *Defenderfer, J., Tas, C., & Buss, A. (2022, April). A neurophysiological investigation of listening effort in normal hearing adults using fNIRS and pupillometry. Poster presented at the Exhibition of Undergraduate Research and Creative Achievement (EURēCA). ***poster won Award of Excellence**
- *Kinder, K. T., **Tas, A. C.**, & Buss, A. T. (2020, November). Tracking flanker task dynamics: Evidence for continuous attentional selectivity. Poster presented at the 28th Annual Workshop of Object Perception, Attention, and Memory, Virtual.
- *Parker, J. L. & **Tas, A. C.** (2020, November). Transsaccadic updating: Evidence for overwriting of color information. Poster presented at the 28th Annual Workshop of Object Perception, Attention, and Memory, Virtual.
- *Defenderfer, J., †McGarr, M., & **Tas, A. C.** (2020, June). Change in pupil size reveals impact of simulated-cochlear implant speech on listening effort. Poster presented at the Virtual Conference of the Vision

Sciences Society.

- *Kinder, K. T., **Tas, A. C.**, & Buss, A. T. (2020, June). Tracking flanker task dynamics: Evidence for continuous implementation of selective attention. Poster presented at the Virtual Conference of the Vision Sciences Society.
- *Parker, J. L. & **Tas, A. C.** (2020, June). Transsaccadic updating: Evidence for overwriting of color information. Poster presented at the Virtual Conference of the Vision Sciences Society.
- Tas, C. A.**, *Kinder, K. T., Eschman, B. T., Ross-Sheehy, S., & Buss, A. T. (2019, August). The role of VWM in transsaccadic updating: An fNIRS study. Poster presented at the 42nd European Conference on Visual Perception, Leuven, BE.
- †Bailey, L., †Thordarson, M., & **Tas, C.** (2019, May). The role of color in transsaccadic object correspondence. Poster presented at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Kinder, K. T., Eschman, B. T., Ross-Sheehy, S., Buss, A. T., & **Tas, C. A.** (2019, May). Transsaccadic object updating depends on visual working memory: An fNIRS study. Poster presented at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- †Bailey, L., †Thordarson, M., & **Tas, C.** (2019, April). The role of color in transsaccadic object correspondence. Poster presented at the Exhibition of Undergraduate Research and Creative Achievement (EURēCA).
***poster won Honorable Mention**
- Costello, M., **Tas, C.**, & Buss, A. T. (2018, November). Aging and working memory: The effect of imprecision in visual representations. Poster presented at the 70th Annual Scientific Meeting of the Gerontological Society of America, Boston, MA.
- *Kinder, K. & **Tas, C.** (2018, May). The effects of temporal and featural dynamics of the fovea on peripheral perception. Poster presented at the 18th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- *Kinder, K., **Tas, C.**, Buss, A. T. (2016, November). Probing the stimulus and response specificity of inhibition induced forgetting. Poster presented at the 57th Annual meeting of the Psychonomic Society, Boston, MA.
- Tas, A. C.** & Hollingworth, A. (2015, October). The representation of the saccade target depends on visual stability. Poster presented at the 7th Bernstein Workshop on Active Perceptual Memory, Berlin, Germany.
- Tas, A. C.**, Moore, C. M., & Hollingworth, A. (2014, May). The role of visual stability in the representation of the saccade target object. Poster presented at the 14th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Tas, A. C.** & Hollingworth, A. (2012, November). The role of surface feature continuity in binding objects and semantic information. Poster presented at the 20th Annual Workshop of Object Perception, Attention, and Memory, Minneapolis, MN.
- Tas, A. C.**, Luck, S. J., & Hollingworth, A. (2012, May). Saccade execution, not covert attention, leads to automatic encoding of distractors into VWM. Poster presented at the 12th Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tas, A. C.**, Moore, C. M., & Hollingworth, A. (2011, May). The role of surface feature information in object persistence across saccades. Poster presented at the 11th Annual Meeting of the Vision Sciences Society, Naples, FL.
- Tas, A. C.**, Moore, C. M., & Hollingworth, A. (2010, November). Object persistence across saccades is influenced by surface feature consistency. Poster presented at the 51st Annual Meeting of the Psychonomic Society, St Louis, MO.

Tas, A. C., Dodd, M. D., Hollingworth, A. (2010, May). The role of surface feature and spatiotemporal continuity in object-based inhibition of return. Poster presented at the 10th Annual Meeting of the Vision Sciences Society, Naples, FL.

Tas, A. C. & Boduroglu, A. (2008, November). Individual differences in eye movement patterns during encoding and retrieval of own- and other-race faces. Poster presented at the 16th Annual Workshop on Object Perception, Attention, and Memory, Chicago, IL.

Professional Service

Ad hoc reviewer: *Attention, Perception, & Psychophysics; Cognitive Systems Research; Frontiers in Psychology; Journal of Comparative Psychology; Journal of Vision; Journal of Experimental Psychology: General; Philosophical Psychology; PLOS One; Psychological Research; Psychonomic Bulletin and Review; Quarterly Journal of Experimental Psychology; Scientific Reports*

Reviewer, National Science Foundation, 2020

Reviewer, Conference of the Cognitive Sciences Society, 2014-2017, 2019

Service to the Department

Psychology Honors Program Director, UTK, 2020-present

Department of Psychology Sona Task Force, UTK, 2022-present

Department of Psychology Undergraduate Program Committee member, UTK, 2016-present

Department of Psychology Executive Committee CDS area representative, UTK, August 2020-December 2020

Introduction to Research Methods course coordinator, UTK, 2017-2020

University of Iowa Graduate Student Advisory Committee, Cognition and Perception Area Representative, 2010-2011.

Service to the University

Faculty mentor, Women in STEM Advancing Research, Readiness, and Retention, UTK, 2017-2021

Research Grant Reviewer, The University of Iowa Executive Council of Graduate & Professional Students 2012-2014

University of Iowa Graduate Student Senate, Senator, 2012-2013

University of Iowa Graduate Student Senate, Academic Mentoring Committee Member, 2012-2013

University of Iowa Turkish Student Association Executive Committee, Secretary, 2011-2014

University of Iowa Turkish Student Association Executive Committee, Officer, 2010-2011

Teaching

Courses Taught (Graduate)

Graduate Seminar in Psychology – Visual Cognition (PSYC 601, UTK) – Fall 2020

Practicum/College Teaching (PSYC 529, UTK) – Spring 2018, Summer 2019

Courses Taught (Undergraduate)

Honors Advanced Research Methods in Psychology (PSYC 397, UTK) – Spring 2021, Spring 2022, Spring 2023

Honors Research Methods in Psychology (PSYC 298, UTK) – Fall 2021, Spring 2021, Spring 2022, Spring 2023, Fall 2023

Research Methods in Psychology (PSYC 295, UTK) – Fall 2020, Spring 2020, Fall 2019, Spring 2019, Summer 2018 (Online), Fall 2018, Spring 2018, Fall 2017, Spring 2017, Fall 2016, Spring 2016, Fall 2015, Spring 2015, Fall 2014

Advanced Research Methods (PSYC 395, UTK) – Spring 2020, Spring 2018, Spring 2018, Fall 2017

Introduction to Cognitive Psychology Lab (University of Iowa, Instructor: Thomas Farmer) – Spring 2013

Laboratory in Psychology: Visual Perception (University of Iowa, Instructor: Andrew Hollingworth) – Fall 2010
Computer Use in Statistics, SPSS (Bogazici University, Istanbul, Türkiye) – Spring 2008

Thesis Committees Chaired

Golnaz Forouzandehfar	M.A., Spring 2024 (expected)
Madeline Embrey	M.A., Spring 2024 (expected)
Michael Mugno	M.A., Summer 2023
Bailey Bohannon	Chancellor's Honors & Psychology Honors, Spring 2022
Jessica Parker	M.A., Spring 2021
Lindsey Bailey	Psychology Honors, Spring 2020

Thesis Committees Served

Victoria Jones	M.A., Fall 2024 (expected)
Hollis Heim	PhD, Spring 2024 (expected)
John Connell	PhD, Summer 2023 (expected)
Asante Knowles	M.A., Summer 2023 (expected)
Kaleb Kinder	PhD, Spring 2023
Kara Lowery	PhD, Summer 2022
Jessica Defenderfer	PhD, Spring 2022
Hollis Heim	M.A., Spring 2021
Kelly Roth	M.A., Fall 2017; PhD, Fall 2020
Rachel Eddings	M.A., Spring 2020
Anastasia Kerr-German	PhD, Spring 2019
Nickolas Jernigan	Chancellor's Honors, Spring 2019

Student Advisory Committees Served

Kelly Roth (CDS area)
Hollis Heim (CDS area)
Asante Knowles (CDS area)
James Bramlett (Social area)
Darla Bonagura (Social area)
Jim Cooper (CDS area)
Kubra Genc-Akyuz (CDS area)
Sage Bendickson (CDS area)