AYŞEGÜL ÖZKAN

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EDUCATION

9/2011-10/2020	Ph.D. in Cognitive Science, Middle East Technical University, METU, Ankara, Turkey
	"Phonological Mediation in Reading: A Theoretical Framework" (In English) Advisor: Dr. Cengiz Acartürk, METU Cognitive Science Dept. Co-Advisor: Dr. Bilal Kırkıcı, METU Foreign Language Education Dept.
10/2006-12/2010	M.A. in Philosophy, METU, Ankara, Turkey
	"Structure and Process: Prospects for Theories of Cognitive Science" (In English) Advisor: Dr. Erdinç Sayan, METU Philosophy Dept.
8/1998-6/2003	Undergraduate in Economics, Hacettepe University, Ankara, Turkey

RESEARCH EXPERIENCE

25.11.2025 - Present	Assistant Professor, Department of Psychology, Faculty of Science and Letters, Başkent University, Ankara, Turkey
1.7.2022 - 30.6.2024	Assistant Professor, Center for Cognitive Science, Jagiellonian University, Krakow, Poland. The "Excellence Initiative - Research University" program

REWARDS AND SCHOLARSHIPS

2019-2020 Academic Year	METU Best Ph.D. Thesis Award in Cognitive Science
February 15 – April 15, 2017	TUBITAK Scholarship for Employed Students

TOTAL CITATIONS RECEIVED

Web of Science	14 (12, excl. self-citations); h-index = 2 (Nov. 2025)
Scopus	14 (11, excl. self-citations); h-index = 2 (Nov. 2025)
Google Scholar	32 (18, excl. self-citations); h-index = 3; i10-index = 2 (Nov. 2025)

PUBLICATIONS

Journal publications

Tekbudak, Z. S., Purmohammad, M., **Özkan, A.**, Acartürk, C. (2025). The PSR corpus: A Persian sentence reading corpus of eye movements. *Behavior Research Methods*, 57(14).
https://doi.org/10.3758/s13428-024-02517-x
SSCI, Q1

Acartürk, C., **Özkan, A.**, Pekçetin, T. N., Ormanoğlu, Z., Kırkıcı, B. (2024). TURead: An Eye movement dataset of Turkish reading. *Behavior Research Methods*, *56*(3), 1793–1816.
https://doi.org/10.3758/s13428-023-02120-6
SSCI, Q1

Özkan, A., Beken Fikri, F., Kırkıcı, B., Kliegl, R., & Acartürk, C. (2021). Eye movement control in Turkish sentence reading. *Quarterly Journal of Experimental Psychology, 74*(2), 377-397.
https://doi.org/10.1177/1747021820963310
SCIE, Q3; Scopus, Q2

Peer-reviewed conference proceedings

Jakobi, D. N., Stegenwallner-Schütz, M., Hollenstein, N., Ding, C., Kaspere, R., Matić Škorić, A., ... **Özkan, A.**, … & Jäger, L. A. (2025). [Research paper] MultiplEYE: Creating a multilingual eye-tracking-while-reading corpus. In *Proceedings of the 2025 Symposium on Eye Tracking Research and Applications* (pp. 1-11). Tokyo, Japan.
https://doi.org/10.1145/3715669.3726843
Scopus: https://www.scimagojr.com/journalsearch.php?q=84371&tip=sid&clean=0

Özkan, A., & Acarturk, C. (2024). Refixation Strategies in Sentential Word Reading: An Exploration by Linked Linear Mixed Models [Research paper]. In L. K. Samuelson, S. L. Frank, M. Toneva, A. Mackey, & E. Hazeltine (Eds.), *Proceedings of the Annual Meeting of the Cognitive Science Society, 46* (pp. 5310-5317). Rotterdam, The Netherlands.
https://escholarship.org/uc/item/7m11b8t7

Acartürk, C., Kılıç, Ö., Kırkıcı, B., Can, B., & **Özkan, A.** (2017). The role of letter frequency on eye movements in sentential pseudoword reading [Research paper]. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 1495-1500). London, United Kingdom.
https://escholarship.org/uc/item/36s4d8tv
Scopus: https://www.scopus.com/record/display.uri?eid=2-s2.0-85139557228&origin=recordpage

OTHER CONFERENCE PRESENTATIONS

Talk Abstracts

Papadopoulos, T. C., Acartürk, C., Fella, A., **Özkan, A.**, Klimek-Jankowska, D., Krejtz, I., & Barkana, D. E. (2024, October 7). Eye-Tracking in Reading Research: A Systematic Review of Studies with Children of Varying Reading Ability. [Conference object – Talk abstract – presented by Acartürk, C.] *MultiplEYE Mid-Term Conference 2024*, Tirana, Albania.
https://doi.org/10.23668/psycharchives.15493

Acartürk, C., **Özkan, A.** (2023). Oculomotor Control in Reading: Findings from Turkish. *52nd Poznań Linguistic Meeting (PLM2023)* [Talk abstract – presented by Acartürk, C.]. Poznan, Poland

Özkan, A. (2019). Eye movement control in Turkish reading. *The Symposium on Eye Tracking Research and Applications (EyeTR, 2019)* [Talk abstract], Ankara, Turkey

Acartürk, C., Can Buğlalılar, B., Kılıç, Ö., Kırkıcı, B., & **Özkan, A.** (2017). Eye movements in Turkish pseudoword reading. *18th International Conference on Turkish Linguistics (ICTL)* [Talk abstract – presented by Kılıç, Ö.], Adana, Turkey

Özkan, A. (2017). Oral reading in Turkish: An investigation of the eye-voice span. *18th International Conference on Turkish Linguistics (ICTL)* [Talk abstract], Adana, Turkey

Özkan, A. (2017). Türkçede sesli okuma: Göz-ses aralığı araştırması [Oral reading in Turkish: An investigation on the eye-voice span]. *The Symposium on Eye Tracking Research and Applications (EyeTR, 2017)* [Talk abstract], Ankara, Turkey

Acartürk, C., **Özkan, A.**, & Bozkurt, T. N. (2016). Reading in agglutinative languages: silent reading and oral reading in Turkish. *SWAET 2016 (Scandinavian Workshop on Applied Eye Tracking)* [Talk abstract – presented by Özkan, A.], Turku, Finland

Poster Presentations

Özkan, A., Kırkıcı, B., Acartürk, A. (2021). Phonological Mediation in Reading: A Theoretical Framework [Abstract]. *Words in the World 2021 (WOW 2021)*. Online Conference, Canada.
https://wordsintheworld.ca/wp-content/uploads/2021/11/WOW-Abstract-Book-Updated-Nov25.pdf

Ormanoğlu, Z., Acartürk, C., **Özkan, A.**, Kılıç, Ö., & Bozkurt, T. N. (2018). Perceptual span in Turkish reading: A study on parafoveal information intake [Research paper]. *International Symposium on Brain and Cognitive Science (ISBCS)*, İstanbul, Turkey

Kılıç, Ö., Acartürk, C., Kırkıcı, B., Can, B., & **Özkan, A.** (2017). The role of letter frequency on eye movements in Turkish pseudowords [Research paper]. *International Symposium on Brain and Cognitive Science (ISBCS)*, Ankara, Turkey

Acartürk, C., Kırkıcı, B., Kılıç, Ö., **Özkan, A.**, Bozkurt, T. N., Ormanoğlu, Z., Göl, A. Y. (2017). The investigation of cognitive processes in reading: Development of a corpus of Turkish reading patterns for eye movement control modeling [Research paper]. *International Symposium on Brain and Cognitive Science (ISBCS)*, Ankara, Turkey

Özkan, A., Acartürk, C., & Bozkurt, T. N. (2016). Reading in agglutinative languages: Silent reading and oral reading in Turkish [Research paper]. *International Symposium on Brain and Cognitive Science (ISBCS)*, İstanbul, Turkey

PROJECT PARTICIPATION

Ongoing project participation

Hollenstein, N., Jager, L., Trandafili, E., Matic Skoric, A., Kaspere, R., Erol Barkana, D., Vulchanova M., Abdul Nasır, J. COST Action - *Enabling multilingual eye-tracking data collection for human and machine language processing research (MultiplEYE)* (CA21131 – 2022-2026)

Working Group memberships and contributions:

- Working Group 1: Enabling eye-tracking data collection
  Active participation in the group working on preparing experimental stimuli
  Active participation in the group working on experiment design/implementation

  Turkish data collection participation:

  - Coordination of the adaptation of the experiment software and on-screen instructions, psychometric tests, and experimental material to Turkish
  - Setting up the Boğaziçi University Psycholinguistics Laboratory, İstanbul, Turkey, for data collection (experiment software installation and device adjustments)
  - Active participation in data collection in Turkish at Boğaziçi University

- Working Group 2: Experiment design & methodology
  Participation in the group working on a review article on eye-tracking methodology in child reading.

Completed project participation

Acartürk, C., Kırkıcı, B., Kılıç, Ö., Zeyrek Bozşahin, D., Bozşahin, C., Özkan, A., Bozkurt, T. N., Ormanoğlu, Z., Beken Fikri, F., Yalçın, Ö. N., Coşkun, M., Fal, M., Göl, A. Y., İpekoğlu, U., Hülagü, A., TÜBİTAK SOBAG Project - *The investigation of cognitive processes in reading: Development of a corpus of Turkish reading patterns for eye movement control modeling* (113K723 – 2014-2017).

Contributions:

- Contributed to the project deliverables (i.e., research articles and conferences)
- Writing the initial draft of the final project report
- Data preprocessing and statistical analyses
- Coordination of data collection, drift correction, and audio annotation processes
- Designing the experiment in Experiment Builder

IT AND PROGRAMMING SKILLS

Devices, experiment implementation, and data analysis

- EyeLink 1000 & 1000 Plus eye-tracking devices (Advanced)
- Data Viewer eye-tracking data analysis software (Advanced)
- Experiment Builder experiment design software (Advanced)
- NIRScoutX fNIRS brain imaging system (Good)
- NIRStar data recording software (Good)
- NIRSite optode design software (Good)
- Homer 3 fNIRS analysis program (Beginner)
- PsychoPy Builder experiment design software (Beginner)

Statistical analysis

- R Statistics (Excellent)
- SPSS (Good)

Programming

- Python (Beginner)
- Prolog (Beginner)

Other

- Adobe InDesign (Good)
- Adobe Photoshop (Beginner)
- Affinity Photo (Beginner)
- Oracle HR Management System (Advanced)

STATISTICAL AND MATHEMATICAL SKILLS

- Inferential statistics (including mixed effects models)
- Calculus
- Matrix algebra
- Formal logic

LANGUAGE SKILLS

- English (e-YDS: 92.5; 2025 – Advanced)
- Polish (A1.1 – Beginner)
- Turkish (Native)

REVIEWER

Regular reviewer of the annual CogSci conferences of the Cognitive Science Society since 2023.

Turkish Journal of Electrical Engineering and Computer Sciences (2024).

Plos One (2025)

UNOFFICIAL WORKSHOPS PREPARED

December 14 – December 18, 2018	Data Viewer & Eye-Movement Data. ISPA, Lisbon, Portugal
October 6 – October 7, 2017	Experiment Builder & Data Viewer. METU, Ankara, Turkey

SUMMER SCHOOL PARTICIPATION

July 17 – 23, 2023	Computational Neuroscience Academy 2023, Krakow, Poland A one-week summer school focused on physics and machine-learning-based approaches to neuroscience.

NON-ACADEMIC ACTIVITIES

Professional Experience

9/2005-6/2022	Computer Executive (full-time), Academic Personnel Affairs Department, Personnel Affairs Directorate, METU, Ankara, Turkey.
8/2004-8/2005	Call Center Operator (part-time), Siemens Business Center, Ankara, Turkey.

Erasmus

May 3 – May 9, 2009	Erasmus Staff Training Program, University of Kassel, Kassel, Germany. The training aimed to observe the performance evaluation system for administrative personnel and the University of Kassel's administrative personnel training systems.

Amateur Work and Hobbies

2005-2007, 2011-2014	Fictional short story writer, member of editorial board, and member of page layout designer and typographer team, *Kalem Literature and Art Magazine*, Ankara, Turkey.