

Melis Çetinçelik

Postdoctoral Researcher

Department of Cognitive Neuropsychology, Tilburg University
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Work Experience

Postdoctoral Researcher

DEPARTMENT OF COGNITIVE NEUROPSYCHOLOGY, TILBURG UNIVERSITY

April 2024–current

Tilburg, NL

- Project: Tracking visual speech in the maturing brain (NWO VIDI-Grant awarded to Dr. Tineke Snijders)

PhD Researcher

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS

2018–2024

Nijmegen, NL

- Supervisors: Dr. Tineke Snijders & Prof. Dr. Caroline Rowland

Research Assistant (part-time)

DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY, UTRECHT UNIVERSITY

Jan–Dec 2023

Utrecht, NL

- PI: Dr. Caroline Junge
- Contributed to the development of an analysis pipeline for the EEG data of the YOUNG cohort study using FieldTrip/MATLAB and EEGLAB

Lecturer (part-time)

DEPARTMENT OF EXPERIMENTAL PSYCHOLOGY, UTRECHT UNIVERSITY

Sep–Nov 2023

Utrecht, NL

- Taught “Child Development in Practice” course

Education

PhD in Developmental Cognitive Neuroscience

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS & RADBOUD UNIVERSITY

2018–2024

Nijmegen, NL

- Dissertation: A Look into Language: The Role of Visual Cues in Early Language Acquisition in the Infant Brain
- Supervisors: Dr. Tineke Snijders & Prof. Dr. Caroline Rowland
- International Max Planck Research School for Language Sciences Graduate School

MSc in Brain and Cognitive Sciences (Cum Laude)

INSTITUTE OF INTERDISCIPLINARY STUDIES, UNIVERSITY OF AMSTERDAM

2016–2018

Amsterdam, NL

• Visiting Graduate Student

Department of Psychology, University of Cambridge, UK

2017–2018

- Thesis: The effects of social gaze on infant social behaviour and learning
- Thesis advisors: Dr. Victoria Leong (University of Cambridge) & Prof. Dr. Maurits van der Molen (UvA)
- First year Master’s research project at the Music Cognition Lab, University of Amsterdam (Supervisors: Dr. Makiko Sadakata & Dr. Paula Roncaglia-Denissen, PI: Prof. Dr. Henkjan Honing)

BA in Psychology & Philosophy (Double Major, Summa Cum Laude)

KOÇ UNIVERSITY

2011–2016

Istanbul, Turkey

- Track Certificate in Cognitive and Brain Sciences

Awards, Fellowships, & Grants

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| 2024 | IASCL 2024 Travel Award , International Association for the Study of Child Language (€1,209) |
| 2021 | Merit Award, Honourable Mention , Society for the Neurobiology of Language |
| 2019 | Pre-SIPS Workshop Travel Award , Society for the Improvement of Psychological Science |
| 2017–2018 | Erasmus+ Scholarship , Internship at the University of Cambridge |
| 2016–2018 | Amsterdam Excellence Scholarship , University of Amsterdam (€50,000) |
| 2016 | First Ranking in Department , Koç University |
| 2012–2016 | Vehbi Koç Scholar Award for Academic Excellence , Koç University |
| 2011–2016 | Undergraduate Placement Examination Scholarship (%100) , Koç University |

Publications

- Çetinçelik, M.**, Jordan-Barros, A., Rowland, C.F., & Snijders, T.M. (2024). The effect of visual speech cues on neural tracking of speech in 10-month-old infants. *European Journal of Neuroscience*, 60(6), 5381-5399. doi:10.1111/ejn.16492.
- Çetinçelik, M.**, Rowland, C.F., & Snijders, T.M. (2024). Does the speaker's eye gaze facilitate infants' word segmentation from continuous speech? An ERP study. *Developmental Science*. 27(2). doi:10.1111/desc.13436.
- Çetinçelik, M.**, Rowland, C.F., & Snijders, T.M. (2023). Ten-month-old infants' neural tracking of naturalistic speech is not facilitated by the speaker's eye gaze. *Developmental Cognitive Neuroscience*, 64, 101297. doi: 10.1016/j.dcn.2023.101297.
- Ruggeri, K., Panin, A., Vdovic, M., ... **Çetinçelik, M.**, & García-Garzon, E. (2022). The globalizability of temporal discounting. *Nature Human Behaviour*, 1–12. doi:10.1038/s41562-022-01392-w.
- Chen, A., **Çetinçelik, M.**, Roncaglia-Denissen, P.M., & Sadakata, M. (2021). Native language, L2 experience, and pitch processing in music. *Linguistic Approaches to Bilingualism*. doi:10.1075/lab.20030.che.
- Ruggeri, K., Veckalov, B., Bojanic, L., ... **Çetinçelik, M.**, R... & Folke, T. (2021). The general fault in our fault lines. *Nature Human Behaviour*, 1–11. doi: 10.1038/s41562-021-01092-x.
- Çetinçelik, M.**, Rowland, C.F., & Snijders, T.M. (2021). Do the Eyes Have It? A Systematic Review on the Role of Eye Gaze in Infant Language Development. *Frontiers in Psychology*, 11:589096. doi:10.3389/fpsyg.2020.589096.
- Hogekamp Z., Blomster J.K., Bursalioglu, A., Calin, M.C., **Çetinçelik, M.**, Haastrup L., & van den Berg, Y.H.M. (2016). Examining the Importance of the Teachers' Emotional Support for Students' Social Inclusion using the one with many design. *Frontiers in Psychology*, 7. doi:10.3389/fpsyg.2016.01014.

PREPRINTS

- Govaart, G. H., Schettino, A., Helbling, S.,...,**Çetinçelik, M.**,...Paul, M. (2022). EEG ERP Preregistration Template. Preprint: <https://osf.io/preprints/metaarxiv/4nvpt/>

Presentations

* Supervised student

Sander, J., **Çetinçelik, M.**, Zhang, Y., Rowland, C. F., & Harmon, Z. (2024, July). Why does joint attention predict vocabulary acquisition? The answer depends on what coding scheme you use. Talk presented at the *46th Annual Meeting of the Cognitive Science Society (CogSci 2024)*. Rotterdam, The Netherlands.

Çetinçelik, M., Jordan-Barros, A.*, Rowland, C. F., & Snijders, T. M. (2024, July). Infants' neural tracking of multimodal speech and its relationship with vocabulary development. Talk presented at the symposium Neural tracking of speech in the developing brain: Paths forward, part of the *16th International Congress for the Study of Child Language (IASCL 2024)*. Prague, Czech Republic.
- symposium organiser

Çetinçelik, M., Rowland, C. F., & Snijders, T. M. (2024, July). Does the speaker's eye gaze facilitate infants' neural tracking of speech?. Talk presented at the symposium "Infants' neural sensitivity to caregiver ostensive signalling: has its importance been over-egged?" part of the *24th International Congress of Infant Studies (ICIS 2024)*. Glasgow, Scotland.

Jordan-Barros, A.*, **Çetinçelik, M.**, Rowland, C. F., & Snijders, T. M. (2024, July). The role of visual speech cues on infants' neural tracking of speech. Poster presented at the *24th International Congress of Infant Studies (ICIS 2024)*, Glasgow, Scotland.

Sander, J., **Çetinçelik, M.**, Zhang, Y., & Rowland, C. F. (2024, July). Exploring the dynamics of joint attention measures in predicting language abilities. Poster presented at the *24th International Congress of Infant Studies (ICIS 2024)*, Glasgow, Scotland.

Çetinçelik, M., Jordan-Barros, A.*, Rowland, C. F., & Snijders, T. M. (2024, June). Neural tracking of audiovisual speech in 10-month-old infants and relationship with vocabulary development. Talk presented at the *6th Workshop on Infant Language Development (WILD 2024)*. Lisbon, Portugal.

Sander, J., **Çetinçelik, M.**, Zhang, Y., Rowland, C. F., & Harmon, Z. (2024, June). Comparing joint attention metrics: Insights from infant-caregiver interactions. Talk presented at the *6th Workshop on Infant Language Development (WILD 2024)*. Lisbon, Portugal.

Van der Klis, A., **Çetinçelik, M.**, Menn, K., Snijders, T. M., & Junge, C. (2024, June). Neural tracking of nursery rhymes: Development and relations with vocabulary outcomes. Poster presented at the *6th Workshop on Infant Language Development (WILD 2024)*, Lisbon, Portugal.

Çetinçelik, M., Jordan-Barros, A.*, Rowland, C.F., & Snijders, T.M. (2024, June). Infants' neural tracking of multimodal speech and links with language development. Poster presented at the *IMPRS Conference 2024*, Nijmegen, The Netherlands.

Sander, J., **Çetinçelik, M.**, Zhang, Y., & Rowland, C. F. (2024). Comparing joint attention metrics: Insights from infant-caregiver interactions. Poster presented at the *IMPRS Conference 2024*, Nijmegen, the Netherlands.

Çetinçelik, M., Jordan-Barros, A.*, Rowland, C.F., & Snijders, T.M. (2023, October). Do visual speech cues facilitate ten-month-old infants' neural tracking of speech?. Talk presented at *Many Paths to Language (MPaL 2023)*, Nijmegen, The Netherlands.

Sander, J., **Çetinçelik, M.**, Zhang, Y., & Rowland, C. F. (2023, October). Unraveling the granularity of different metrics in analyzing joint attention data *Many Paths to Language (MPaL 2023)*, Nijmegen,

The Netherlands.

Jordan, A.*, **Çetinçelik, M.**, Rowland, C. F., & Snijders, T.M. (2023, October). Do visual speech cues facilitate infants' neural tracking of speech?. Talk presented at the *15th Annual Meeting of the Society for the Neurobiology of Language (SNL 2023)*, Marseille, France.

Jordan, A.*, **Çetinçelik, M.**, Rowland, C. F., & Snijders, T.M. (2023, October). Do visual speech cues facilitate infants' neural tracking of speech?. Poster presented at the *15th Annual Meeting of the Society for the Neurobiology of Language (SNL 2023)*, Marseille, France.

Çetinçelik, M., Jordan-Barros, A.*, Rowland, C.F., & Snijders, T.M. (2023, September). Do visual speech cues facilitate infants' neural tracking of speech?. Talk presented at the *Gesture and Speech in Interaction (GESPIN) Conference*, Nijmegen, The Netherlands.

Snijders, T.M., **Çetinçelik, M.**, Jordan-Barros, A.*, & Rowland, C.F. (2023, June). The effect of visual mouth cues on neural tracking of speech in 10-month-old infants. Poster presented at the *International Multisensory Research Forum*, Brussels, Belgium.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2022, September). Bebeklerin Konuşma İşleme ve Kelime Ayırıştırma Becerilerine Dair Bir EEG Çalışması. Poster presented at the *3rd Developmental Psychology Symposium*, Istanbul, Turkey.

Jordan, A.*, **Çetinçelik, M.**, Rowland, C. F., & Snijders, T.M. (2022, August). The role of audio-visual cues on infants' cortical speech tracking and word recognition. Poster presented at the *7th Lancaster Conference on Infant and Early Child Development*, Lancaster, United Kingdom.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2022, June). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Poster presented at the *TOK-Dag*, Nijmegen, The Netherlands.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2022, June). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Poster presented at the *IMPRS Conference*, Nijmegen, The Netherlands.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2022, June). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Talk presented at the *Workshop on Infant Language Development*, San Sebastian, Spain. 2022-06-09–2022-06-11.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2022, April). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Poster presented at the *18th NVP Brain and Cognition Winter Conference*, Egmond aan Zee, The Netherlands.

Jordan, A.*, **Çetinçelik, M.**, Rowland, C. F., & Snijders, T.M. (2022, April). The role of audio-visual cues on infants' cortical speech tracking and word recognition. Poster presented at the *18th NVP Brain and Cognition Winter Conference*, Egmond aan Zee, The Netherlands.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2021, January). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Poster presented at the *Society for the Neurobiology of Language Annual Meeting*, Virtual.
Received the Graduate Student Merit Award, Honourable Mention.

Çetinçelik, M., Rowland, C. F., & Snijders, T.M. (2021, January). The effect of the speaker's eye gaze on infants' speech processing and word recognition. Poster presented at the *6th Lancaster Conference on Infant and Early Child Development*, Virtual.

- Çetinçelik, M.,** Rowland, C. F., & Snijders, T.M. (2021, January). The effect of eye gaze on infants' speech processing and word recognition. Poster presented at the *Budapest CEU Conference on Cognitive Development*, Virtual.
- Çetinçelik, M.,** Rowland, C. F., & Snijders, T. M. (2020, July). The effects of eye gaze on infants' language learning: A systematic review. Poster presented at the *International Congress of Infant Studies*, Virtual.
- Çetinçelik, M.,** Wenzl, M., Clackson, K., Georgieva, S., Wass, S., & Leong, V. (2019, August). The effect of social gaze on infant social behaviour and language learning. Poster presented at the *4th Lancaster Conference on Infant and Early Child Development*, Lancaster, United Kingdom.
- Çetinçelik, M.,** Snijders, T.M., & Rowland, C. F. (2019, March). The effect of eye gaze on infants' speech processing and word recognition. Poster presented at the *Society for the Improvement of Psychological Science Conference*, Rotterdam, The Netherlands.
- Çetinçelik, M.,** & Sadakata, M. (2017, June). The effects of language background on musical rhythm and pitch perception. Poster presented at the *ABC Brain Day*, Amsterdam, The Netherlands.
- Blomster, J.K., Bursalioglu, A., Calin, C.M., **Çetinçelik, M.,** Haastrup, L., Hoge Kamp, Z., & van den Berg, Y.H.M. (2016, August). Examining the Importance of the Teachers' Emotional Support for Students' Social Inclusion using the one with many design. Conference presentation at the *Junior Researcher Programme Conference*, University of Cambridge, UK.

Invited Talks

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| <i>The role of visual cues in early language acquisition in the infant brain</i> | December 2024 |
| Language and Cognition Lab, Koç University | |
| <i>Do social and visual speech cues facilitate infants' speech processing and learning?</i> | June 2023 |
| Language and Cognition Lab, University College London | |

Teaching Experience

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| Lecturer | Sep–Nov 2023 |
| Child Development in Practice (BA Course), Utrecht University | |
| Teaching Assistant | July 2022 |
| BRC Summer School "Translating Developmental Science from Research to Practice", Radboud University | |
| • Led discussion session on Applied Research at BRC Summer School | |
| Guest Lecturer | July 2022 |
| First Language Acquisition (MSc Course), Radboud University | |
| Teaching Assistant | Jan 2021 |
| Methods in Language Acquisition, LOT Winter School | |
| • Led discussion sessions for the Methods in Language Acquisition Course | |

Teaching Assistant

2014–2015

Statistics for Social Sciences (Undergraduate Course), Koç University

- Led problem-solving sessions
- Proctored and graded exams

Supervision

Tilburg University

2024-2025

Thesis supervision of two MSc Clinical Neuropsychology students

Radboud University

2021-2022

Thesis supervision of one MSc Cognitive Neuroscience student

Skills

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| Methods | EEG/ERP, Behavioural |
| Software | MATLAB (FieldTrip, EEGLAB), R, SPSS, NeuroBS Presentation, ELAN, Praat, CLAN |
| Languages | Turkish (native), English (advanced), German (intermediate), Dutch (intermediate) |

Service & Outreach

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| Oct 2023 | Many Paths to Language (MPAL) Workshop , Co-organiser |
| Sep 2023 | GESPIN 2023 Conference , Volunteer |
| 2020 - 2023 | MPI TalkLing Science Blog , Writer & Editor |
| 2020 - 2022 | MPI for Psycholinguistics , PhD representative |
| June 2020 | International Max Planck Research School (IMPRS) Conference 2020 , Co-organiser |
| 2019, 2020, 2022 | Kletsoppen Child Language Festival , Volunteer |
| Sep 2019 | MPI for Psycholinguistics, Introduction Days , Co-organiser |
| 2021 - 2022 | Koç University , Alumni mentor |
| 2015, 2016 | Koç University , Undergraduate newcomer mentor |