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Assistant Professor¹

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<https://bouncoglab.wordpress.com/research-areas/music-memory/>

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Education

Ph.D. (2007)	American University, Washington, DC, USA <i>Area:</i> Behavior, Cognition, & Neuroscience (BCAN) <i>GPA:</i> 4.00/4.00 <i>Dissertation Title:</i> Effect of Encoding Processes on Explicit and Implicit Remembering of Melodies <i>Committee:</i> Zehra F. Peynircioğlu, Andrea R. Halpern, Scott Parker, Sterling Scroggins
M.A. (1998)	American University, Washington, DC, USA <i>Area:</i> Behavior, Cognition, & Neuroscience (BCAN) <i>GPA:</i> 4.00/4.00 <i>Thesis Title:</i> Qualitative Effects of Intended Forgetting on Memory <i>Committee:</i> Zehra F. Peynircioğlu, Teresa A. Blaxton, Scott Parker
B.A. (1990)	Boğaziçi University, Istanbul, TURKEY <i>GPA:</i> 3.87/4.00, graduated as top student of the Faculty of Arts & Sciences
Abitur (1986)	German High School, Istanbul, TURKEY <i>GPA:</i> 96/100 and Abitur (with high honors) in Mathematics, Physics, German, English

Scholarships and Honors

2017-2018	Excellence in Teaching Award, Boğaziçi University
1990-1994	Full tuition scholarship, American University Teaching assistant scholarship, American University Dean's scholarship, American University

¹ In January 2017, a so-called "state-of-emergency decree" blocked my associate professorship process for close to three years, i.e., up until my acquittal from a court case that had been started against me due to being a signatory of a peace petition. Since my acquittal I now have an ongoing court trial to regain my "confiscated" rights...

1986-1990	High Honor's, Boğaziçi University
1986	DAAD full scholarship for undergraduate studies in Germany

Research Funds

2019-2021	Boğaziçi University Scientific Research Grant No. 14324, <i>In Search of Influences of Music and Language on Rhythm Perception</i>
2014-2017	Boğaziçi University Scientific Research Grant No. 9040 <i>Investigation of the Underlying Processes of Retrieval-Induced Forgetting Mechanisms</i>
2012-2014	Boğaziçi University Scientific Research Grant No. 7090 <i>Updating Turkish Category Norms Study</i>
2011-2012	Boğaziçi University Scientific Research Grant No. 6357 <i>A Study of Forgetting Processes via Remembering</i>

Employment

2007 - present	Assistant Professor Boğaziçi University Psychology Department
2002 - 2007	Instructor Boğaziçi University Psychology Department
1998 – 2002	Fulltime employed in research & development related divisions at a private sector company
1996 – 1996	Part-time instructor (teaching PSY 301 Research Methods) Boğaziçi University Psychology Department
1990 – 1994	Teaching and Research Assistant American University Psychology Department

Research Interests

Pitch, melody, and rhythm perception and memory
 Forgetting processes in episodic memory
 Cognitive science
 Evolution & behavior

Ongoing Research Projects and Collaborations

- Music- and language-based enculturation effects on rhythm perception (Boğaziçi University Scientific Research Grant No: 14324)
- Implicit and explicit knowledge-based expectation effects in pitch & melodic perception (ongoing)
- Collaboration with Steven J. Morrison and Steven M. Demorest in their study on musical enculturation in perception and memory (ongoing)
- Collaboration with Nori Jacoby in his study on cross-cultural rhythm schemata (Nov 2017 – Jan 2019)
- Collaboration with John R. Iversen and Anirrudh D. Patel to test their conjecture of linguistic influences on binary grouping of auditory stimuli (Feb 2018 – Jan 2019)

Publications

Mungan, E. (in press). Geşalt kuramının problem çözme üzerine çalışmaları ve günümüzün Geşaltı [Gestalt research on problem solving and today's Gestalt]. *Nesne*

Mungan, E. (2021). Geşalt kuramının az bilinen çalışmaları: Bellek [Gestalt theory's less known studies: Memory], *Nesne*, 9(19), 147-175. DOI: [10.7816/nesne-09-19-12](https://doi.org/10.7816/nesne-09-19-12)

Mungan, E. (2020). Geşalt kuramı: Bir "nazariye"nin mazisi, akameti ve akıbeti [Gestalt theory: Its past, stranding, and future], *Nesne*, 18(8), 585-618. DOI: [10.7816/nesne-08-18-15](https://doi.org/10.7816/nesne-08-18-15)

Mungan, E. & Kaya, E. (2020). Some time violations go less noticed: Gestalt grouping? A brief report. *Timing & Time Perception: Special Issue on Temporal Illusions*, 8, 350-362. DOI: [10.1163/22134468-bja10010](https://doi.org/10.1163/22134468-bja10010)

Eraltan, Ş. E., & **Mungan, E.** (2020). *Turkish category norms: Updating the Peynircioğlu (1988) norms*. Istanbul: Boğaziçi University Press. <https://seyhan.library.boun.edu.tr/>

Mungan, E. & Peynircioğlu, Z. F. (2020). The manifold and unity of music: In a continuing quest for both diverse and unifying research on music. *New Ideas in Psychology: Special Issue on Music*, 54, 100725. DOI: [10.1016/j.newideapsych.2019.01.001](https://doi.org/10.1016/j.newideapsych.2019.01.001)

Mungan, E., Akan, M., & Bilge, M. T. (2019). Tracking familiarity, recognition, and liking increases with repeated exposures to nontonal music: Revisiting MEE-Revisited. *New Ideas in Psychology: Special Issue on Music*, 54, 63-75. DOI: [10.1016/j.newideapsych.2019.02.002](https://doi.org/10.1016/j.newideapsych.2019.02.002)

Peynircioğlu, Z. F., **Mungan, E.**, & Schwartz, B. L. Challenges in music memory research. In Otani, H., & Schwartz, B. L. (2018). *Handbook of research methods in human memory* (pp. 330-353). Routledge Press.

Karan, A., & **Mungan, E.** (2018). In further search of tonal grounds for short term melody recognition. In R. Parncutt & S. Sattmann (Eds.), *Proceedings of the Fifteenth International Conference on Music Perception and Cognition* (pp. 237-243), Centre for Systematic Musicology, Karl-Franzens Universität Graz.

Yörük, H., & **Mungan, E.** (2017). Statistical summary representations in music-like perception. In E. van Dyck (Ed.), *Proceedings of the 25th Anniversary Conference of the European Society for the Cognitive Sciences of Music* (pp. 167-170), IPEM, Ghent University.

Mungan, E., Yazıcı, Z. F., Kaya, M. (U.). (2017). Perceiving boundaries in unfamiliar Turkish makam music: Evidence for gestalt universals? *Music Perception*, 34, 267-290. DOI: [10.1525/mp.2017.34.3.267](https://doi.org/10.1525/mp.2017.34.3.267)

Lartillot, O., Yazıcı, Z. F., & **Mungan, E.** (2013). A more informative segmentation model, empirically compared with state of the art on traditional Turkish music. In P. van Kranenburg, C. Anagnostopoulou, and A. Volk (Eds.), *Proceedings of the Third International Workshop on Folk Music Analysis* (pp. 63-70), Amsterdam: Meertens Institute; Department of Information and Computing Sciences, Utrecht University.

Mungan, E., Peynircioğlu, Z. F., & Halpern, A. R. (2011). Levels-of-processing effect on remember responses in recognition for familiar and unfamiliar melodies. *American Journal of Psychology*, 124(1), 37-48. DOI: [10.5406/amerjpsyc.124.1.0037](https://doi.org/10.5406/amerjpsyc.124.1.0037)

Mungan, E. & Peynircioğlu, Z. F. (1999). Unutmaya yönlendirmenin bellek üzerinde niteliksel etkileri. *Türk Psikoloji Dergisi*, 14, 1-15.

Peynircioğlu, Z. F. & **Mungan, E.** (1993). Familiarity, relative distinctiveness, and the generation effect. *Memory & Cognition*, 21, 367-374.

Köksal, F., Kurt, A., Anıldı, T., **Mungan, E.**, Çalkılıç, Ç., & Vatansever, Ç. (1990). An investigation of conditioned skin resistance response generalization using visual stimulus. In A. R. Kaylan & M. A. Eyler (Eds.), *Academic Computing on Macintosh Environment* (pp. 105-113). Istanbul: Bogazici University Publication.

Manuscripts Under Review/In Preparation

Tokaç, Z., **Mungan, E.**, & Özsoy, S. (under review). Rethinking duration in linguistic rhythm: A priming study of metrical speech in Turkish.

Halpern, A. R., **Mungan, E.**, & Peynircioğlu, Z. F. (under review). Mood judgments and memory for tunes: A special case of levels-of-processing?

Jacoby, N., Polack, R., Grahn, J. A. et al. (in preparation). Universality and cross-cultural variation in mental representations of music revealed by global comparison of rhythm priors

Kaplan, E. C., **Mungan, E.**, & Yazıcı, Z. F. (in preparation). Can Western Listeners Detect Pitch Deviations in Makam Music Sequences?

Kaya, E., **Mungan E.**, Logačev, P. (in preparation). Does language influence rhythmic grouping?

Journal Reviews et al.

Journal of Interdisciplinary Music Studies (Editorial Board, since 2020)
 New Ideas in Psychology (Guest Editor for Special Issue on Music, 2019)
 New Ideas in Psychology (Ad hoc reviewer)
 Timing & Time Perception (Ad hoc reviewer)
 Attention, Perception, & Psychophysics (Ad hoc reviewer)
 Psychonomic Bulletin & Review (Ad hoc reviewer)
 Psychology of Music (Ad hoc reviewer)
 Quarterly Journal of Experimental Psychology (Ad hoc reviewer)
 Music Perception (Ad hoc reviewer)
 Psychomusicology (Ad hoc reviewer)
 Psychological Research (Ad hoc reviewer)
 Türk Psikoloji Dergisi (Ad hoc reviewer)

Nesne (Ad hoc reviewer)

Conference Presentations

Tokaç, Z., & **Mungan, E.**, Özsoy, S. (2019, November). *Rhythmic Priming for Metrical Speech in Turkish: Amplitude/Pitch and/or Duration?* Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Canada.

Mungan, E. (2019, September). *2017-2019 Müzik Bilişsel Çalışmalarımız Hakkında Genel Sunum (An overview of our music cognition research between 2017-2019)*. Research presented at the 5th Experimental Cognitive Psychology Symposium, Kadir Has University, Istanbul, Turkey.

Tokaç, Z., & **Mungan, E.**, Özsoy, S. (2019, April). *Durational Bases of Rhythm in Language: Musical Priming for Metrical Speech*. Poster presented at the 6th International Symposium on Brain and Cognitive Science, Yeditepe University, Istanbul, Turkey.

Tokaç, Z., & **Mungan, E.**, Özsoy, S. (2018, November). *Rethinking Duration and Rhythm in Language and Music: Can Duration Prime Rhythm in Metrical Speech?* Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, MI, USA.

Karan, A., & **Mungan, E.** (2018, July). *In Further Search of Tonal Grounds for Short Term Melody Recognition*. Poster presented at the 15th International Conference on Music Perception and Cognition & 10th triennial conference of the European Society for the Cognitive Sciences of Music (ICMPC15-ESCOM10), Graz, Austria.

Kaplan, E. C., Yazıcı, Z. F., & **Mungan, E.** (2018, June). *Can Western Listeners Detect Pitch Deviations in Makam Music Sequences?* Poster presented at the 15th International Conference on Music Perception and Cognition & 10th triennial conference of the European Society for the Cognitive Sciences of Music (ICMPC15-ESCOM10), Graz, Austria.

Tokaç, Z., & **Mungan, E.** (2018, May). *Rethinking Rhythm in Language and Music: Does Duration Prime Rhythm in Metrical Speech?* Poster presented at the 5th International Symposium on Brain and Cognitive Science, Bogazici University, Istanbul, Turkey.

Kaya, E., & **Mungan, E.** (2018, May). *In Further Search of Differential Enculturation and Entrainment Effects in Rhythmic Grouping*. Poster presented at the 5th International Symposium on Brain and Cognitive Science, Bogazici University, Istanbul, Turkey.

Karan, A. & **Mungan, E.** (2017, November). *Tonal Grounds for Short-Term Memory for Melodies*. Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.

Kaya, E., & **Mungan, E.** (2017, October). *In Search of Differential Enculturation and Entrainment Effects in Rhythmic Grouping*. Poster presented at the 1st Conference of the Timing Research Forum (TRF), Strasbourg, France.

Mungan, E. (2017, September). *2015-2017 Müzik Bilişsel Çalışmalarımız Hakkında Genel Sunum (An overview of our music cognition research between 2015-2017)*. Research presented at the 4th Experimental Cognitive Psychology Symposium, Izmir, Turkey.

Yörük, H., & **Mungan, E.** (2017, August). *Statistical summary representations in music-like perception*. Poster presented at the 25th Anniversary Conference of the European Society of Cognitive Sciences of Music (ESCOM), Ghent, Belgium.

Kaya, E., & **Mungan, E.** (2017, June). *In Search of Differential Enculturation and Entrainment Effects in Rhythmic Grouping*. Poster presented at the 4th International Symposium on Brain and Cognitive Science, Ankara, Turkey.

Yallak, E., Akırmak, Ü., Guerzoni, E., & **Mungan, E.** (2016, November). *Moses Illusion in Foreign Language Context*. Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA, USA.

Kaplan, E. C., Yazıcı, Z. F., & **Mungan, E.** (2016, July). *Knowledge-Based Expectation Effects on Pitch Perception: A cross-cultural Investigation*. Poster presented at the 14th International Conference on Music Perception and Cognition, San Francisco, CA, USA.

Kaplan, E. C., Yazıcı, Z. F., & **Mungan, E.** (2016, May). *Knowledge-Based Expectation Effects on Pitch Perception: A cross-cultural Investigation*. Poster presented at the 4th International Symposium on Brain and Cognitive Science, Istanbul, Turkey.

Mungan, E. (2015, September). *2013-2015 Müzik Bilişsel Çalışmalarımız Hakkında Genel Sunum (An overview of our music cognition research between 2013-2015)*. Research presented at the 3rd Experimental Cognitive Psychology Symposium, Ankara, Turkey.

Akan, M., Bilge, M. T., & **Mungan E.** (2014, November). *Effect of repetition on affect and recognition judgments in nontonal tunes*. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA, USA.

Yazıcı, Z. F., **Mungan, E.**, & Kaya, M. (U.). (2014, August). *Gestalt universals or musical enculturation: Perceiving boundaries in unfamiliar Turkish makam music*. Poster presented at the 13th International Conference on Music Perception and Cognition and the 5th Triennial Conference of the Asian-Pacific Society for the Cognitive Sciences of Music, Seoul, South Korea.

Mungan, E. (2013, October). *Makam müziğinde deneyimli ve deneyimsiz katılımcıların segmentasyon performansı ve bir metod önerisi (The segmentation performance of experience and unexperienced listeners in makam music and a proposal for a new method)*. Paper presented at the Psychology & Art Symposium II, Ankara, Turkey.

Lartillot, O., Yazıcı, Z. F., & **Mungan, E.** (2013, June). *A pattern-expectation, non-flattening accentuation model empirically compared with segmentation models on traditional Turkish music*. Paper presented at the 3rd International Workshop on Folk Music Analysis, June 6-7, Utrecht University Meertens Institute, Department of Information and Computing Sciences, Amsterdam, Netherlands.

Mungan, E., Peynircioğlu, Z. F., & Halpern, A. R. (2012, July). *Mood-based processing of unfamiliar tunes increases recognition accuracy in "remember" responses*. Research presented at the 12th International Conference on Music Perception and Cognition and the 17th Triennial Conference of the European Society for the Cognitive Sciences of Music, Thessaloniki, Greece.

Mungan, E., Peynircioğlu, Z. F., & Halpern, A. R. (2012, April). *Az tanınan ve tanınan melodilerde kodlama süreçlerinin hatırlama tipi tanıma belleğine etkisi: Müzik belleğinde kavramsal-algısal paradigma yerine belirginlik-ilişkisel paradigma işliyor mu? (Levels-of-processing effects on remember type recognition memory in familiar and unfamiliar melodies: Does the conceptual-perceptual paradigm rather than the relational-distinctiveness paradigm apply for music?)* Research presented at the 17th National Psychology Conference, Istanbul, Turkey.

Mungan, E. (2012, April). *Evrım teorisi ve evrimsel çerçeveden insan doğasına bakış (Evolutionary theory and a look at human nature from an evolutionary perspective)*. Talk at the Evolution Workshop, Şirince, Turkey.

Eraltan, Ş. E., & **Mungan, E.** (2011, November). *Increasing retrieval-induced forgetting by increasing response competition: Further support for the suppression account*. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA, USA.

Eraltan, Ş. E., & **Mungan, E.** (2011, August). *Effects of Retrieval Practice Manipulations Retrieval-Induced Forgetting*. Research presented at the 5th International Conference on Memory, York, UK.

Fidancı Engin, P., Sunar, D., & **Mungan, E.** (2011, July). *Development of Altruistic Behavior in Early Childhood: Helping, Sharing, and Donation Behaviors of Preschoolers*. Research presented at the 12th European Congress of Psychology, Istanbul, Turkey.

Bilge, M. T., **Mungan, E.**, Boduroğlu, A., & Tekman, H. G. (2010, November). *Effects of tune repetition on the mere exposure effect in nontonal music*. Research presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MI, USA.

Fidancı Engin, P., Sunar, D., & **Mungan, E.** (2010, April). *Erken çocuklukta olumlu sosyal davranışın gelişimi: Okul öncesi çocuklarında yardım etme, paylaşma ve bağış yapma davranışları*. Research presented at the 16th National Psychology Conference, Mersin, Turkey.

Mungan, E., Peynircioğlu, Z. F., & Halpern, A. R. (2009, November). *The effects of orienting task and familiarity on remembering and knowing in melody recognition*. Research presented at the 50th Annual Meeting of the Psychonomic Society, Boston, MA, USA.

Mungan, E. & Peynircioğlu, Z. F. (2006, November). *Effect of encoding processes on explicit and implicit remembering of melodies*. Research presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX, USA.

Mungan, E. & Peynircioğlu, Z. F. (2005, November). *Effect of encoding processes on remembering melodies*. Research presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Canada.

Mungan, E. & Peynircioğlu, Z. (1991, April). *Familiarity and the generation effect*. Paper presented at the Convention of the Eastern Psychological Association, New York City, NY.

Grants & Awards

Boğaziçi University Scientific Research Fund (2011, 2012, 2013-2016, 2018-2021)

Boğaziçi University Faculty of Arts and Sciences Conference Participation Funding (2009, 2010, 2011, 2013, 2014, 2016, 2017, 2018, 2019)

Boğaziçi University Foundation Conference Participation Funding (2005, 2006, 2009, 2010, 2012, 2014, 2016, 2017, 2018, 2019)

Aachen Peace Award (2016)

Teaching Experience

Theories and Issues in Psychology

Music Cognition I, II, & III

Human Memory

Advanced Cognitive Psychology

Advanced Memory

Statistics I & II

Research Methods

Advanced Research Methods

Evolution & Behavior

Fundamentals of Psychology

Thesis Supervisions

PhD: External Examiner

Steffen Herff, *Memory for melodies in unfamiliar tuning systems*. (2017, external examiner, Western Sidney University, The MARCS Institute for Brain, Behaviour and Development, PhD program)

PhD: Co-Advisor

Zeynep Funda Yazıcı, *A comparison of makam music segmentation by three computational models and trained and not-trained listeners*. (2016, co-advisor with Assoc. Prof. Nilgün Doğrusöz, ITÜ Turkish Music Conservatory, Music Theory and Musicology Division, PhD program)

M.A.:

Züheyra Tokaç, *Rethinking rhythm in language and music: Can duration prime rhythm in metrical speech?* (2019 December, Psychological Sciences M. A. program)

Alperen Karan, *Tonal grounds for short term melody recognition in 5-tone sequences*. (2019 August, Psychological Sciences M. A. program)

Ece Kaya, *In search of music- and language-related factors influencing rhythmic grouping*. (2019 May, Cognitive Science M. A. program)

Şirin Ezgi Eraltan, *The role of response competition in retrieval-induced forgetting*. (2018, Psychological Sciences M. A. program)

Ece Yallak, *The effect of processing fluency on semantic illusion*. (2017 October, Cognitive Science M. A. program)

Elif Canseza Kaplan, *Knowledge-based expectation effects on pitch perception: a cross-cultural investigation* (2017 March, Cognitive Science M. A. program)

Dorina Strori, *Acquisition of past tense in Albanian: An elicited production study* (2012, Cognitive Science M. A. program)

Zeynep Barlas, *An integrative approach to sense of agency: Subliminal primes of actions and effects can*

modulate both intentional binding and judgment of agency in an agentive-ambiguous context. (2012, Cognitive Science M. A. program)

Ömer Dağlar Tanrıkulu, *Biases in probability judgments: Hot hand vs. gambler's fallacy.* (2011, Cognitive Science M.A. program)

M. Taha Bilge, *Effect of tune repetition on judgments of preference in nontonal music.* (2010, Psychological Sciences M.A. program)

Pınar Engin, *Development of altruism in early childhood.* (2009, Psychological Sciences M.A. program)

Ayşegül Çetinkaya, *ACT-R based memory models of iterated prisoner's dilemma.* (2009, Cognitive Science M.A. program)

Invited Talks

American University, *Local and global influences in pitch perception: Two studies*, Nov. 16, 2016.

Bahçeşehir University Brain & Cognition Lab Seminar Series, *Effect of repetition in affect and recognition judgments in nontonal tunes*, Jan. 6, 2016.

Üsküdar Amerikan Lisesi, Science Talks, *Evrım ve Davranış (Evolution & Behavior)*, May 3, 2013.

Üsküdar Amerikan Lisesi, Science Talks, *Darwin ve Evrim Teorisi (Darwin & The Theory of Evolution)*, March 15, 2013.

Uludağ University Seminar Series, *Bilgi İşleme Düzeyinin Müzik Belleği Üzerindeki Etkisi (Effect of Levels -of-Processing on Music Memory)*, January 14, 2011.

Scientific Conferences Organized

Talk by Dr. Peter Keller from Max Planck Institute, at Bogazici University's Rectorate Conference Hall, November 23, 2007. Funded by Turkish Science and Technology Association (TUBITAK) Guest Scientist Support Program (code 2221).

Talk by Dr. Asher Koriat from Haifa University, at Bogazici University's Rectorate Conference Hall, April 27, 2006.

Departmental and University Service

2002 – 2005 Department Vice Chair

2012 Scientific Committee of 17th National Psychology Conference

2010 - Member of the Rectorate's Award Commission

Memberships

European Society for the Cognitive Sciences of Music (ESCOM; <http://www.escom.org/>)

The Psychonomic Society (www.psychonomic.org)

Timing Research Forum (<http://timingforum.org/>)

Turkish Psychological Society (TPD; www.psikolog.org.tr)
Association of Psychologists for Social Solidarity (TODAP; www.todap.org)
Association of University Faculty Members of Turkey (UOUD)

References

Professor Zehra F. Peynirciođlu
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