

## BURCU DEMIRAY, Ph.D.

University of Zurich  
Department of Psychology &  
Healthy Longevity Center  
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<https://www.psychologie.uzh.ch/de/bereiche/dev/geronto/team/bdemiray.html>



### Profile

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- Lifespan developmental psychologist and senior researcher with entrepreneurial experience
- Research, teaching, mentoring and project management in various universities in US and Europe
- 10 years of interdisciplinary research collaborating with engineers, data scientists and AI experts
- 10 years of innovative research methods (e.g., smartphone sensing), devices (wearables) and data analytics (e.g., machine learning) for the collection, coding, and analysis of real-life big data
- 3.5 years of developing a digital startup: Ed-tech for senior learners supporting healthy aging

### Professional Positions

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2022 - present	<b>Research &amp; Innovation Group Leader “CogInno”, University of Zurich (UZH)</b> Department of Psychology & Healthy Longevity Center
2020 - present	<b>Founder and Manager, OldSchool (now WiseLearn)</b> “An e-learning concept and platform for senior learners” <a href="https://info.wise-learn.com/en/welcome/">https://info.wise-learn.com/en/welcome/</a>
2018 - present	<b>Community Member, University of Zurich</b> Digital Society Initiative (DSI), “Education” and “Health” Communities
2018 - 2020	<b>Senior Research Fellow, University of Zurich - ETH - ZHdK</b> Collegium Helveticum, Project Coordinator “Semantic Health Text Analytics”
2015 - 2020	<b>Senior Researcher, University of Zurich</b> University Research Priority Program “Dynamics of Healthy Aging”
2015 - 2021	<b>Research Group Leader “Semantic Activity Analytics for Healthy Aging”, University of Zurich</b> Department of Psychology, Chair of Gerontopsychology*
2013 - 2015	<b>Research Associate, University of Zurich</b> Department of Psychology, Chair of Gerontopsychology*
2011 - 2013	<b>Postdoctoral Researcher, University of Zurich</b> Department of Psychology, Chair of Developmental Psychology: Adulthood*

\* Employment at 75%

Maternity leave: Feb 2015 – Oct 2015

Reduced employment due to childcare (60%): Nov 2015 – Nov 2017

## Education

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- 2010 **University of Florida, Gainesville**  
Ph.D. in Developmental Psychology, Advisor: Prof. Susan Bluck  
Dissertation *“Autobiographical memory functions and psychological well-being in young adulthood and midlife”*
- 2004 - 2006 **Koç University, Istanbul**  
M.A. in Developmental Psychology, Advisor: Prof. Sami Gülgöz  
Language of Instruction: English  
Thesis *“Reminiscence bump: The lifespan distribution, content and phenomenological qualities of adults’ autobiographical memories”*
- 2000 - 2004 **Koç University, Istanbul**  
B.A. in Psychology, Language of Instruction: English

## Continuing Education

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09. 2023 - 07. 2024 **University of Zurich**  
Continuing Education Program, “Teaching Skills” Course (7 ECTS)
10. 2023 - present **ThePower MBA**  
One-year online MBA Program with certification

## Grants and Fellowships

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- 2024 **Schwyz-Winiker Foundation, Switzerland**  
PI for Project *“Let’s end ageism together”*  
(45’000 Swiss Francs for 12 months)  
Cooperation partners: Citizen Science Center Zurich, Gerontology Center Zurich
- 2024 **Walder Foundation, Switzerland**  
PI for Project *“Let’s end ageism together”*  
(60’000 Swiss Francs for 12 months)
- 2024 **University of Zurich, Competitive Innovative Teaching Fund**  
PI for developing a new graduate seminar *“Ageism: Research, Innovation and Policy Considerations”* (40’000 Swiss Francs for 12 months)
- 2023 - 2024 **Digitalization Initiative of the Zurich Higher Education Institutions (DIZH)**  
Innovation Programme, Project Call 2022  
PI for Project *“Revolutionizing education60+: Digital lifelong learning”*  
(598’338 Swiss Francs for 18 months)  
Cooperation partners: City of Zurich, Swiss Seniors Universities Association, Swiss People’s Universities, MaxBrain AG, SparkAdemy AG
- 2022 - 2024 **Erasmus+ Cooperation Partnerships in Higher Education (KA2)**  
PI for Erasmus+60 Project, Part *“Development of digital lifelong learning methods and tools”* (274’934 Euros)  
Cooperation partners: 7 EU universities including Uni Porto, ELTE, etc.
- 2020 - 2021 **Innosuisse, Swiss Innovation Agency**  
Initial Startup Coaching for OldSchool (5’000 Swiss Francs)

- 2012 – 2018      **University of Zurich, Peer-Mentoring Program**  
Founder and Leader of Peer-Mentoring Group “*Statistical Analyses with R*” (33’500 Swiss Francs)
- 2014              **Swiss National Science Foundation**  
International Research Visit Fund (visited University of Arizona)
- 2013 - 2014      **University of Zurich, Competitive Research Innovation Fund**  
PI for Project “*Functional approach to memory and well-being across the adult lifespan*” (65’641 Swiss Francs)
- 2012 - 2013      **Suzanne and Hans Biäsch Foundation, Competitive Applied Psychology Fund** PI for Project “*Ecological approach to autobiographical memory and well-being in the context of healthy aging*” (36’540 Swiss Francs)
- 2007 - 2010      **University of Florida, College of Liberal Arts and Sciences**  
Grinter Fellowship (merit-based)
- 2010              **University of Florida**  
The Jacquelin Goldman Summer Fellowship (merit-based)

#### **Honors & Awards**

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- 2022              Vontobel Foundation, Switzerland  
**Vontobel Award for Research on Age and Aging**  
Senior author in winning paper  
“*Predicting working memory in healthy older adults using real-life language and social context information: A machine learning approach*”
04. & 05. 2020      Versus Virus Hackathon I & II, Swiss Federation  
**Winner in both Hackathons** with Project OldSchool (15’200 Swiss Francs)
- 2019              Vontobel Foundation, Switzerland  
**Vontobel Award for Research on Age and Aging** (12’500 Swiss Francs)  
First author in winning paper “*Reminiscence in everyday conversations: A naturalistic observation study of older adults*”
- 2011, 2012, 2013      Swiss Academy of Humanities and Social Sciences (SAGW)  
**Travel award**
- 2011              The Gerontological Society of America  
**Best Doctoral Dissertation Award in Behavioral and Social Sciences (2011)**
- 2010              University of Florida, Gainesville  
**Ferguson Memorial Award** (merit-based)
- 2009              University of Florida, Gainesville  
**Best Dissertation Award** from the Psychology Department
- 2007, 2008, 2009      University of Florida, Gainesville  
**Travel Award** from Graduate Student Council & Department of Psychology  
**Travel Award** from College of Liberal Arts and Sciences

- 2006 The Society for Applied Research in Memory and Cognition, USA  
**Travel award**
- 2005 New Bulgarian University, Sofia, Bulgaria  
International Summer School in Cognitive Science with **Full scholarship**
- 2004 - 2006 Koç University, Istanbul  
**Full scholarship: MA Program in Developmental Psychology**
- 2001 - 2004 Koç University, Istanbul  
**Dean's Honor Roll:** based on academic excellence and GPA

## Teaching

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### University of Zurich, Psychology Department

- Fall 2024 Ageism: Research, Innovation and Policy Considerations (blended, graduate)  
Spr 2022, 23, 24 Innovation in Healthy Longevity (undergrad. seminar)  
Fall & Spr 2020 Real-life Memory and Healthy Aging (undergrad. seminar)  
Fall & Spr 2019 Real-life Cognitive Activities and Healthy Aging (undergrad. seminar)  
Spr 2018 Cognitive Activities in the Real World (undergrad. seminar)  
Fall 2014 Memory in the Real World (graduate seminar)  
Fall 2013 Autobiographical Memory in Late Life (graduate seminar)  
Spr 2012 Autobiographical Memory Across the Life Span (undergrad. seminar)  
Fall 2011 Psychology of Love (graduate seminar)

### University of Florida, Psychology Department

- Spr 2010 Research Methods in Developmental Psychology Laboratory (undergraduate)  
Spr 2009 Introduction to Psychology (large undergraduate lecture)

#### Teaching Assistant:

- 2010 Research Methods in Developmental Psychology (undergraduate)  
2009 Introduction to Psychology (large undergraduate lecture)  
2008 & 2009 Measurement, Design and Statistics I & II (PhD level)  
(elected as TA due to outstanding performance in these 2 courses)  
2007 & 2008 Developmental Psychology (undergraduate, in class & web-based)

### Koç University, Psychology Department

- 2005- 2006 Assistant Instructor: Introduction to Psychology  
2005 Teaching Assistant: Psychology of Testing and Measurement  
2004- 2005 Teaching Assistant: Research Methods in Psychology

## Mentoring (most recent, since 2015, at University of Zurich)

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**Ph.D. thesis (1):** Minxia Luo, "*Cognitive Aging and Language Complexity: Variations across Interlocutors as Contexts in the Real World*" (Defended in 2020)

### **Master's theses (17):**

#### Completed:

Sarah Untersander, Marianne Mischler, Mirjam Imfeld, Elisabeth Schoch, Caroline Winkler, Eliana Brianza, Cornelia Ursprung, Leah Knecht, Kathrin Inerle, Laura Breitfelder, Irena Stanasic, Julia Sulzmann, Fabienne Joos, Aline Dietsche

Ongoing:

Lea Riniker “Seniors’ acceptance of avatar instructors over human instructors in e-learning”

Maxine Knöpfel “Senior entrepreneurship: Understanding challenges, barriers and opportunities”

Sabrina Sovilla “Learning together online – How to get started with e-learning in late life?”

**Bachelor’s theses (13):**

Andra Arnican, Olenka Dworakowski, Christine Tusz, Lucas Baeriswyl, Melanie Bamert, Florian Eschenmoser, Meret Santschi, Anna Buschor, Irena Stanisic, Tatjana Häfliger, Deborah Miggiano, Julia Jakubowski, Elena Ursula Yfantis

**Research interns (31):**

Annika Martin, Zoe Wälchli, Isabel Berwian, Oliver Lohse, Andra Arnican, Nathalie de Peri, Joelle Barthassat, Marion Hauert, Marianne Mischler, Martina Preisig, Leonie Pahud, Laura Nanz, Charlotte Kukowski, Melanie Bamert, Celine Cheng, Anja Vandersmissen, Claudio Ludwig, Elia von Moos, Chiara Carrel, Sofie Künzle, Kathrin Inerle, Irena Stanisic, Pia Tremel, Nour Hatem, Vanessa Hackmann, Oliver Hliddal, Cornelia Ursprung, Leah Knecht, Emma Smith, Melike Koc, Fabienne Joos

**Professional service / Organizational commitment**

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2023 - present	Member of “Association of Junior Researchers” University of Zurich Working Group “Internationalization of the Department of Psychology” (Developing internationalization strategy, meetings with faculty)
2022 - 2024	Steering Committee Member EU Project <i>Erasmus+60</i>
2024 - 2027	Member of Governing Board (Re-elected) Society for Applied Research on Memory and Cognition (SARMAC) (Developing society’s growth strategy, reshaping its governance structure, decision making, various award committees, chair of committees)
2020 - 2023	Member of Governing Board (elected) Society for Applied Research on Memory and Cognition (SARMAC)
2023	Career Mentor Alumni Mentorship Network, Koc University, Istanbul Mentoring 4 <sup>th</sup> year Psychology students (Monthly Zoom meetings to plan their internships, graduate-study or job applications, career steps, and building their network, CV checks)
2020 - present	Member of Editorial Board Journal of Gerontopsychology and Geriatric Psychiatry (GeroPsych)
2020 - 2022	Founding Member Women in Digital Health Association (Organizing workshops and talks with digital health companies and startups)
2019	Guest Editor, Journal of Gerontopsychology and Geriatric Psychiatry
2016 - present	<u>Grant Development Support and Writing (PI: Prof. Mike Martin):</u> <ul style="list-style-type: none"><li>• Healthy Longevity Center (5 Mio Swiss Francs, 2023-2027)</li></ul>

- University Research Priority Program “Dynamics of Healthy Aging” Phase II & III (12 Mio Swiss Francs, 2017-2023)
- National Research Program, 77 Digital Transformation (10 Mio Swiss Francs, 2019-2023)
- Citizen Science Center Zurich (1.25 Mio Swiss Francs, 2017-2020)

2012 - 2019 Peer-Mentoring Program, University of Zurich  
 Founder and Leader of Peer-Mentoring Group “*Statistical Analyses with R*” (Applying for funding, leading the group, organizing statistics workshops with R experts, meetings with group members in Ph.D. and postdoc levels)

09. 2010 - 02. 2011 Lab Manager: Koc University, Research in Applied Memory Lab, Prof. Sami Gülgöz (Leading projects, training assistants, running meetings)

2009 - 2010 Lab Manager: University of Florida, Life Story Lab (Prof. Susan Bluck) (Recruiting assistants, training assistants, running meetings, assigning tasks)

### **Organization of Workshops/Conferences**

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04. 2021 Scientific Committee member of the Society for Applied Research in Memory and Cognition Conference, 2021

2020 - present Several workshops with senior citizens on digitalization and digital skills  
 Usability testing of digital learning tools with seniors, OldSchool, UZH

12. 2020 Scientific Committee of the Society for Ambulatory Assessment Conference  
 11. 2020 3rd International interdisciplinary workshop on "Semantic Analysis of Multi-Scale Health Dynamics" at Collegium Helveticum

2019 - 2020 “Careers outside of academia” talk series for Postdocs, with invited speakers  
 Peer-Mentoring Program, UZH

09. 2019 Workshop “Regulating Algorithms for Health?” at Collegium Helveticum

04. 2019 Scientific Committee of the 5<sup>th</sup> Aging and Cognition Conference  
 European Cognitive Ageing Society (EUCAS)

03. 2019 2nd International interdisciplinary workshop on "Semantic Analysis of Multi-Scale Health Dynamics" at Collegium Helveticum

2016 - present MADOKO: Master’s and Doctoral Students Conference  
 Department of Psychology, UZH (Supporting students with their presentations, acting as judge for best poster prize)

2012 - 2019 Numerous workshops on statistical analyses in R (e.g., multilevel modeling, structural equation modeling, power analyses, longitudinal analyses)  
 Peer-Mentoring Program, UZH

### **Participation in Workshops/Courses (most recent)**

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02. 2024 “Integrating ChatGPT in teaching and learning” (1 day)  
 Educational Development and Technology Center, ETH Zurich

- 10. 2023 "Exploring AI for science communication" course (2 days)  
Graduate Campus, UZH
- 10. 2023 "Blended learning: Models and application settings" course (1 day)  
Educational Development and Technology Center, ETH Zurich
- 08. 2023 Digital Health Lab Day "Digital Strategies for Future Healthcare", ZHAW
- 04. 2023 "Third-Age Learning Perspectives in Modern Society", Online Hackathon  
University of Latvia
- 04. 2023 Data Protection Workshop, Law and Ethics Research Group (1 day)  
Digital Society Initiative, UZH
- 10. 2022 Digital Health Day 2022, Swiss Healthcare Startups
- 10. 2022 Digital Health Startup Evening, Digital Health Center, Bülach
- 10. 2022 "The many ways social relationships are related to healthy aging" Workshop  
Collegium Helveticum, ETH Zurich & UZH
- 09. 2022 Digital Health Lab Day "Smart healthcare and digital innovation", ZHAW
- 09. 2022 #WeTechTogether Conference, TechFace (Tech for women), Zurich
- 06. 2022 2<sup>nd</sup> Healthy Longevity Innovation Days, UZH (2 days)
- 02. 2022 Design Your Life Workshop, Girls in Tech Switzerland (2 days)
- 11. 2021 BrainFit4Life Symposium "Implementation of Global Technologies for Brain Health",  
BrainFit4Life
- 10. 2021 #WeTechTogether Conference, TechFace (Tech for women), Zurich
- 06.2021 1<sup>st</sup> Healthy Longevity Innovation Days, UZH (2 days)
- 09. 2020 #WeTechTogether Conference, TechFace (Tech for women), Zurich
- Spr 2020 Career coaching sessions from Career Services, UZH &  
Career coaching sessions from Graduate Campus, UZH
- 12. 2019 Lateral Leadership Workshop, Graduate Campus, UZH (2 days)
- 11. 2019 Annual workshop of the Swiss Network for Well-Being and Aging,  
Swiss Academy of Humanities and Social Sciences & UZH
- 10. 2019 Project Management for Researchers Workshop (2 days)  
Graduate Campus, UZH
- 09. 2019 Workshop on "Text Analytics for Health: Applications and Implications", Digital  
Society Initiative, UZH
- 09. 2018 Data Management Workshop (2 days)  
Graduate Campus, UZH

## **Innovation & Entrepreneurship**

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### **Education and Programs completed:**

- 09. 2022 - 03. 2023 Feminno Program, ETH Zurich & University of Zurich  
(Innovation and Career Development in Sciences for female scientists)
- 10 - 12. 2021 UZH, Innovation Hub, Digital Entrepreneurship Coaching for OldSchool
- 07. 2020 - 02. 2021 Innosuisse Initial Startup Coaching for OldSchool
- 09. 2020 - 01. 2021 SEIF Impact Academy (social innovation academy for founders)
- 09. 2020 - 01. 2021 Samsung's Solve for Tomorrow Program (OldSchool was final winner)
- 09. - 12. 2020 Bluelion's LikeMinded Accelerator with OldSchool (acceptance rate: 14%)
- 05. - 09. 2020 Swiss Innovation Challenge 2020, Business development courses
- 05. - 11. 2020 Versus Virus Incubation Program with OldSchool (7 months)
- 05. - 06. 2020 Social Business Creation Course (SEIF & Startup Campus)
- 09. - 12. 2019 Innosuisse Startup Training: "Business Concept" Course (one semester)
- 09. - 12. 2019 Digital Entrepreneurship Bootcamp, Innovation Hub, UZH (one semester)

### **Pitches of OldSchool:**

- 03. 2023 Feminno Program (UZH & ETH Zurich), Graduation Pitch

- 11. 2022 & 2023 Female Founder Pitch Event, Sandborn & University of St. Gallen
- 06. 2021 University of Zurich, Innovation Hub, Digital Entrepreneurship Cluster
- 04. 2021 Versus Virus Hackathon, 1<sup>st</sup> Anniversary Event
- 01. 2021 Samsung's Solve for Tomorrow Program, Winner of Final Pitch Event
- 01. 2021 Active Assisted Living Programme (EU Funding) Event
- 12. 2020 Bluelion LikeMinded Accelerator Program, Final pitch
- 11. 2020 Versus Virus Incubation Program, Graduation pitch
- 11. 2020 Impact Hub Zurich, Open Hub Day, Startup Pitches
- 06. 2020 Swiss Innovation Challenge 2020 (passed the 1<sup>st</sup> competition stage, 50% pass)
- 06. 2020 Women in Digital Health Association, General Assembly

**Invited Talks:**

- 04. 2024 Distance University, Switzerland  
Talk "Sounds of Healthy Aging: Cognitive activities of older adults in the real world"
  
- 03. 2024 Trendtage Gesundheit Luzern 2024  
Talk «From Cradle to Grave: The Importance and Digitalization of Lifelong Learning for Healthy Longevity»
  
- 11. 2023, Swissuniversities Association, FemSpin Project, Workshop series  
02. 2024 (supporting and promoting start-up activities of female scientists)
  
- 11. 2023 University of Nottingham, Malaysia, Department of Psychology  
Research Colloquium Talk "An e-learning concept for 60+"
  
- 05. 2023 AGE-INT Exchange "Age and Technology"  
Eastern Switzerland University of Applied Sciences (OST)
  
- 05. 2021 Research Colloquium Talk "An e-learning concept for 60+"  
University Research Priority Program "Dynamics of Healthy Aging", UZH
  
- 04. 2021 Speaker at Panel "What can European cognitive aging researchers contribute to the WHO Decade of Healthy Aging 2020-2030?"  
Conference of the European Cognitive Aging Society
  
- 11. 2020 Swiss Digital Days 2020, Impuls Talk (on TV, SRF)  
<https://digitaltage.swiss/en/programm/impuls-talk-university-of-zurich/>
  
- 07. 2020 Keynote at Open 17, Summer School  
"Innovating for a Sustainable Post-Pandemic World"
  
- 02. 2020 Speaker at panel "Towards a Sustainable Europe with Transdisciplinary Research":  
The Mission of Switzerland to the European Union, Brussels & SwissCore (Contact Office for European Research, Innovation and Education)

**Coach & Scientific Advisor Roles:**

- 2023 - present (1) AIAS, MultiGeneration Lab (Zurich)
  
- 07. 2023 Coach on healthy longevity (coaching students on startup ideas, grant proposals),  
University of Zurich, Innovation Hub



07. 2020 Coach on healthy longevity (coaching students on startup projects),  
Open 17, Summer School

#### Interviews/Media:

01. 2024 UZH News;  
<https://www.news.uzh.ch/en/articles/news/2024/Senior-Citizens-University.html>

09. 2023 University of Zurich (UZH) Magazin, Dossier "Gesund Älter werden"  
[https://issuu.com/uzhch/docs/uzh\\_magazin\\_3\\_23?fr=xKAE9\\_zU1NQ](https://issuu.com/uzhch/docs/uzh_magazin_3_23?fr=xKAE9_zU1NQ)

07. 2023 Gerontology Blog by City of Zurich & University of Zurich  
<https://www.gerontologieblog.ch/lebenslanges-digitales-lernen-oldschool-plattform-fuer-erwachsene-60/>

12. 2020 UZH News; <https://www.news.uzh.ch/de/articles/2020/Autobiografie.html>

06. 2020 Impact Hub Newsletter, RonOrp Magazine  
[https://www.ronorp.net/zurich\\_en/ronstips/leisure.593/cityscribes.643/oldschool-distance-learning-platform-for-senior-citizens.1952895](https://www.ronorp.net/zurich_en/ronstips/leisure.593/cityscribes.643/oldschool-distance-learning-platform-for-senior-citizens.1952895)

05. 2020 Versus Virus Hackathon II, Live-stream online interview at the Hackathon  
04. 2020 UZH News; <https://www.news.uzh.ch/de/articles/2020/OldSchool.html>

04. 2020 Migros Magazine: <https://www.migros.ch/de/Magazin/2020/Hackaton.html>

04. 2020 UZH Annual Report  
Article on my entrepreneurial profile "Vom Bootcamp zum Start-up"

#### Research Stays with Invited Talks

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Oct 2019 University of Rostock, Institute of Computer Science  
Jun 2019 Tilburg University, Department of Cognitive Science & Artificial Intelligence  
Oct 2018 University of Geneva, Cognitive Aging Lab  
Oct 2016 Aarhus University, Center on Autobiographical Memory Research  
Sep 2016 Koc University, Istanbul, Research in Applied Memory Laboratory  
Aug 2014 University of Arizona, Department of Psychology  
Apr 2014 Bogazici University, Computer Engineering Department, Istanbul  
Mar 2014 University of Louvain, Department of Psychology, Belgium

#### Ad-hoc Reviewer

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Psychology and Aging, Developmental Psychology, Gerontology, GeroPsych, Frontiers in Psychology, European Journal of Ageing, Aging and Mental Health, International Journal of Behavioral Development, Applied Cognitive Psychology, Memory, Emotion, Journal of Cognitive Psychology, Journal of General Psychology, Journal of Individual Differences, Journal of Happiness Studies, Journal of Social and Personal Relationships, Identity, Advances in Cognitive Psychology, PLOS ONE

#### Professional affiliations

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The Society for Applied Research in Memory and Cognition (SARMAC)  
Gerontological Society of America (GSA)  
European Cognitive Aging Society (EUCAS)  
Digital Society Initiative (DSI), University of Zurich

## Languages

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Turkish: Mother tongue

English: Fluent

German: Intermediate (B1 Level, TELC Certificate)

## References

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Prof. Mike Martin

Department of Psychology, University of Zurich

Email: [m.martin@psychologie.uzh.ch](mailto:m.martin@psychologie.uzh.ch)

Prof. Susan Bluck

Department of Psychology, University of Florida

Email: [bluck@ufl.edu](mailto:bluck@ufl.edu)

Dr. Christina Röcke

Healthy Longevity Center, University of Zurich

Email: [christina.roecke@uzh.ch](mailto:christina.roecke@uzh.ch)

Prof. Nancy Pachana

School of Psychology, University of Queensland, Australia

Email: [n.pachana@psy.uq.edu.au](mailto:n.pachana@psy.uq.edu.au)

## Publications (\* = Student co-author)

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**Demiray, B.**, Neff, P., Martin, M. & Röcke, C. (under review). The relation between older adults' cognitive abilities in the lab and length of natural speech in everyday life: A machine learning approach.

Ferrario, A. & **Demiray, B.** (2024). Understanding reminiscence and its negative functions in the everyday conversations of young adults: A machine learning approach. *Heliyon*, 10(1).

<https://doi.org/10.1016/j.heliyon.2023.e23825>

Kaplan, D. M., Tidwell, C. A., Chung, J. M., Alisic, E., **Demiray, B.**, Bruni, M., Evora, S., Gajewski-Nemes, J. A., Macbeth, A., Mangelsdorf, S. N., Mascaro, J. S., Minor, K. S., Noga, R. N., Nugent, N. R., Polsinelli, A. J., Rentscher, K. E., Resnikoff, A. W., Robbins, M. L., Slatcher, R. B., Tejada-Padron, A. B., & Mehl, M. R. (2023). Diversity, equity, and inclusivity in observational ambulatory assessment: Recommendations from two decades of Electronically Activated Recorder (EAR) research. *Behavior Research Methods*.

<https://doi.org/10.3758/s13428-023-02293-0>

Tidwell, C. A., Danvers, A., Abel, D. B., Alisic, E., Beer, A., Bierstetel, S., ... & Mehl, M. R. (2022). Are women really (not) more talkative than men? A registered report of binary gender similarities/differences in daily word use. *Nature, Human Behavior*. <https://doi.org/10.17605/OSF.IO/D6T53>

Luo, M. \*, Ferrario, A., Polsinelli, A. J., Moseley, S. A., Mehl, M. R., Yordanova, K., Martin, M., & **Demiray, B.** (2022). Predicting working memory in healthy older adults using real-life language and social context information: A machine learning approach. *Journal of Medical Internet Research, Research Protocols*, 5(1): e28333. <https://aging.jmir.org/2022/1/e28333>

Luo, M. \*, Debelak, R., Schneider, G., Martin, M., & **Demiray, B.** (2020). With a little help from familiar interlocutors: Real-world language use in young and older adults. *Ageing & Mental Health*, 1-10.

<https://doi.org/10.1080/13607863.2020.1822288>

Luo, M. \*, Neysari, M., Schneider, G., Martin, M., & **Demiray, B.** (2020). Linear and non-linear age trajectories of language use: A laboratory observation study of couples' conflict conversations. *Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*. <https://doi.org/10.1093/geronb/gbaa041>

**Demiray, B.** (2020). The interpersonal focus and specificity of autobiographical memories: Theoretical relevance and methodological considerations. *Journal of Gerontopsychology and Geriatric Psychiatry*, Editorial. <https://doi.org/10.1024/1662-9647/a000222>

**Demiray, B.**, Luo, M. \*, Tejada-Padron, A. & Mehl, M. R. (2020). Sounds of healthy aging: Assessing everyday social and cognitive activity from ecologically sampled ambient audio data. In P. Hill & M. Allemand (Eds.), *Personality and Healthy Aging in Adulthood: New Directions and Techniques*. Springer.

Brianza, E. \* & **Demiray, B.** (2019). Future time perspective and real-life utterances about the future in young and older adults. *Journal of Gerontopsychology and Geriatric Psychiatry*, 32(4), 161–173. <https://doi.org/10.1024/1662-9647/a000216>

Luo, M. \*, Robbins, M., Martin, M., **Demiray, B.** (2019). Real-life language use across different interlocutors: A naturalistic observation study of adults varying in age. *Frontiers in Psychology*. DOI: 10.3389/fpsyg.2019.01412

Luo, M. \*, Schneider, G., Martin, M., & **Demiray, B.** (2019). Cognitive aging effects on language use in real-life contexts: A naturalistic observation study. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 714-720). Montreal, QB: Cognitive Science Society. Retrieved from <https://mindmodeling.org/cogsci2019/papers/0140/index.html> (Acceptance rate: 25 %)

Lind, M., **Demiray, B.**, & Bluck, S. (2019). Identifying distinct sets of predictors of specific functions of autobiographical memory. *Memory*. <https://doi.org/10.1080/09658211.2019.1639759>

Wolf, T., & **Demiray, B.** (2019). The mood-enhancement function of autobiographical memories: Comparisons with other functions in terms of emotional valence. *Consciousness and Cognition*, 70, 88-100. <https://doi.org/10.1016/j.concog.2019.03.002>

Ece, B., **Demiray, B.**, Öner, S., & Gülgöz, S. (2019). Comparison of earliest and later autobiographical memories in young and middle-aged adults. *Studies in Psychology*, 39(1), 1-34. DOI: 10.26650/SP2018-0037

**Demiray, B.**, Mehl, M. R., & Martin, M. (2018). Conversational time travel: Evidence of a retrospective bias in real life conversations. *Frontiers in Psychology*, 9. <https://doi.org/10.3389/fpsyg.2018.02160>

Ece, B., **Demiray, B.**, & Gülgöz, S. (2018). Consistency of adults' earliest memories across two years. *Memory*, 27(1), 28-37. <https://doi.org/10.4324/9781003030102>

**Demiray, B.**, Mischler, M. \*, & Martin, M. (2017). Reminiscence in everyday conversations: A naturalistic observation study of older adults. *The Journals of Gerontology: Series B*. <https://doi.org/10.1093/geronb/gbx141>

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**Demiray, B., & Janssen, S. M. J. (2015).** The self-enhancement function of autobiographical memory. *Applied Cognitive Psychology, 29*(1), 49-60. <https://doi.org/10.1002/acp.3074>

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**Demiray, B., & Bluck, S. (2014).** Time since birth and time left to live: Opposing forces in constructing psychological well-being. *Ageing and Society, 34*(07), 1193-1218.  
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Bluck, S., Alea, N., & **Demiray, B. (2010).** You get what you need: The psychosocial functions of remembering. In J. Mace (Ed.), *The act of remembering: Toward an understanding of how we recall the past* (pp. 284–307). UK: Blackwell Publishing Ltd.

**Demiray, B., Gülgöz, S., & Bluck, S. (2009).** Examining the life story account of the reminiscence bump: Why we remember more from young adulthood. *Memory, 17*, 708-723.  
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### **Methodological papers**

Schindler, D., Spors, S., **Demiray, B., & Krüger, F. (2022).** Automatic behavior assessment from uncontrolled everyday audio recordings by deep learning. *Sensors, 22*(22):8617. <https://doi.org/10.3390/s22228617>

Stoev, T., Ferrario, A., **Demiray, B., Luo, M.\* , Martin, M., & Yordanova, K. (2021).** Coping with imbalanced data in the automated detection of reminiscence from everyday life conversations of older adults. *IEEE Access, 9*, 116540-116551. [10.1109/ACCESS.2021.3106249](https://doi.org/10.1109/ACCESS.2021.3106249)

Ferrario, A., **Demiray, B., Yordanova, K., Luo, M. \* , & Martin, M. (2020).** Social reminiscence in older adults' everyday conversations: Automated detection using natural language processing and machine learning. *Journal of Medical Internet Research, 22*(9), e19133. [10.2196/19133](https://doi.org/10.2196/19133)

Yordanova, K., **Demiray, B., Mehl, M. R., & Martin, M. (2019).** Automatic detection of everyday social behaviors and environments from verbatim transcripts of daily conversations. *IEEE International Conference on Pervasive Computing and Communications (PerCom 2019)*.  
(Acceptance rate: 16 %)

Hernandez, N., **Demiray, B., Arnrich, B., & Favela, J. (2019).** An exploratory study to detect temporal orientation using bluetooth's sensor. *In the 13th International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth'19)*, May 20–23, 2019, Trento, Italy.

Londral, A., **Demiray, B., & Cheetham, M. (2018).** Quantification of the Voicescape: A person-centric approach to describing real-life behavior patterns: A case study comparing two age groups. In *Proceedings of the 11th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC) - Volume 4: BIOSIGNALS*, pages 311-314.

**Demiray, B.** (2018). Otobiyografik bellek arařtırmalarında kullanılan yöntemler ve metodolojik gelismeler (Methods in autobiographical memory research). In S. Gülgöz, B. Ece, & S. Öner (Eds.), *Hayatı hatırlamak: Otobiyografik Belleğin Psikolojisi*. Koc University Publishing.

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Hernández, N., Yavuz, G. R., Eşrefođlu, R. M., Kepez, T. B., Özdemir, A., **Demiray, B.**, Alan, H. F., Ersoy, C., Untersander, S., & Arnrich, B. (2015, December). Thought and life logging: A pilot study. In *International Conference on Ubiquitous Computing and Ambient Intelligence* (pp. 26-36). Springer International Publishing. DOI: 10.1007/978-3-319-26401-1\_3

### **Policy paper**

Martin, M., Mroczek, D. K., Clare, L., Röcke, C., Mérrillat, S., & **Demiray, B.** (2017). Intrinsic capacity and functional ability: How to operationalize it through the use of individual data, criteria for measurement, data standards and use in modelling outcomes of interest, and key gaps. *Background Paper for World Health Organization (WHO) Working Group on Metrics and Research Standards in Healthy Aging*, 27-31. March, 2017, Geneva.

### **Manuscripts in preparation**

Inerle, K. \*, & **Demiray, B.** (in prep). Lifelong learning and e-learning in old age: The case of WiseLearn Platform.

Breitfelder, L. \*, **Demiray, B.**, Zimprich, D., Martin, M., & Röcke, C. (in prep). Examining the relationship between momentary working memory and mind wandering: An experience sampling study of older adults.

**Demiray, B.**, & Luo, M. \* (in prep). Functions of conversational time travel in young versus older adults' real-life speech in relation to well-being.

### **Conference presentations (\* = Student co-author)**

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Demiray, B., Neff, P., Martin, M. & Röcke, C. (2023). *The relation between older adults' cognitive abilities in the lab and length of natural speech in everyday life*. Poster presented at the 11th Geneva Aging Series, Chexbres, Switzerland.

Brom, J., Demiray, B. & Marcen Cruz, E. (2023). *It is never too late to learn: Is higher education ready to welcome over 60s?* Speaker at Panel at the European Association for International Education (EAIE) Conference, Rotterdam, Netherlands.

Demiray, B. & Liao, H. (2023). *Implications of mental time travel for positive development in adulthood and old age*. Co-chair of symposium at the Society for Applied Research on Memory and Cognition, 14<sup>th</sup> Biennial Meeting, Nagoya, Japan.

Demiray, B., Mayer, Z.\*, & Röcke, C. (2023). *Mental time travel in everyday life: An experience sampling study of older adults*. Paper presented at the Society for Applied Research on Memory and Cognition, 14<sup>th</sup> Biennial Meeting, Nagoya, Japan.

Breitfelder, L.\*, Demiray, B., & Röcke, C. (2023). *Examining the relationship between working memory and mind wandering in the everyday lives of older adults*. Paper presented at the EUCAS 7th Aging & Cognition Conference, Leuven, Belgium.

Neff, P., Demiray, B., Martin, M. & Röcke, C. (2023). *The relation between older adults' cognitive abilities in the lab and frequency of natural speech in everyday life*. Poster presented at the Society of Ambulatory Assessment Meeting, Amsterdam, Netherlands.

Demiray, B. & Ferrario, A. (2022). *Reminiscing about the past with others in everyday life: A naturalistic observation study of young and older adults*. Poster presented at CON AMORE Conference on Autobiographical Memory in Ageing and Dementia, Aarhus, Denmark.

Demiray, B. & Luo, M.\* (2020). *Sounds of healthy aging: Assessing everyday cognitive activity from real-life audio data*. Chair of Symposium at Gerontological Society of America, Annual Scientific Meeting Online.

Demiray, B. & Luo, M.\* (2020). *Sounds of healthy aging: Assessing everyday cognitive activity from real-life audio data*. Paper presented at the BrainFit4Life Online Symposium, Switzerland.

Jeszenszky, P., Demiray, B., Steiner, C., & Leemann, A. (2020). *Towards a regionally representative and socio-demographically diverse resource of Swiss German*. Paper presented at the 5th SwissText & 16th KONVENS Joint Conference 2020, Switzerland.

Demiray, B., Luo, M. \* & Martin, M. (2019). *People laugh more while talking about their personal past than their future: Functions of conversational time travel in the real world*. Paper presented at the Society for Applied Research on Memory and Cognition, 13<sup>th</sup> Biennial Meeting, Cape Cod, USA.

Demiray, B., Luo, M. \* & Martin, M. (2019). *People laugh more while talking about their personal past than their future: Functions of conversational time travel in the real world*. Paper presented at the International Convention of Psychological Science, Paris, France.

Demiray, B., Röcke, C., Allemand, M., & Martin, M. (2019). *Automatic extraction of information on social connection from real-life audio data: Relations with well-being in late life*. Poster presented at the 5th International Conference Aging & Cognition, Zurich, Switzerland.

Luo, M. \*, Schneider, G., Martin, M., & Demiray, B. (2019). *Interlocutor effects on real-life language use in young and older adults: A naturalistic observation study*. Poster presented at the 5th International Conference Aging & Cognition, Zurich, Switzerland.

Demiray, B., Luo, M. \*, & Martin, M. (2019). *Functions of conversational time travel: A naturalistic observation study in everyday life*. In Luo, M. & Katana, M. (Chair), *Associations between real-life cognitive processes and well-being of healthy older adults*. Paper presented at the 9th International Association of Gerontology and Geriatrics, European Region Congress, Gothenburg, Sweden.

Luo, M. \*, Schneider, G., Martin, M., & Demiray, B. (2019). *Real-life language accommodation and mood: A naturalistic observation study of young and older adults*. In Luo, M. & Katana, M. (Chair), *Associations*

*between real-life cognitive processes and well-being of healthy older adults.* Paper presented at the 9th International Association of Gerontology and Geriatrics, European Region Congress, Gothenburg, Sweden.

Luo, M. \*, Neysari, M., Schneider, G., Martin, M., & Demiray, B. (2019). *Effects of age and interlocutors on language use: Conflict conversations of couples varying in age.* Paper presented at the Corpora for Language and Aging Research (CLARe) 4, Helsinki, Finland.

Luo, M. \*, Schneider, G., Robbins, M. L., Martin, M., & Demiray, B. (2019). *Real-life language use across different interlocutors: Two naturalistic observation studies of adults varying in age.* Paper presented at the Corpora for Language and Aging Research (CLARe) 4, Helsinki, Finland.

Demiray, B., & Martin, M. (2018). *Functions of conversational time travel: A naturalistic observation study of young and older adults.* Poster presented at the Conference on Autobiographical Memory and the Self, Center on Autobiographical Memory Research, Aarhus, Denmark.

Demiray, B., & Martin, M. (2018). *Functions of conversational time travel: A naturalistic observation study of young and older adults.* Poster presented at the National Conference of the Swiss Gerontological Society, Montreux, Switzerland.

Brianza, E. \*, Demiray, B., & Martin, M. (2018). *Perceptions and utterances about the future: How are they related to life satisfaction in young and older adults?* Poster presented at the National Conference of the Swiss Gerontological Society, Montreux, Switzerland.

Luo, M. \*, Demiray, B., & Martin, M. (2018). *Real-life language use across different social contexts: A naturalistic observation study of young and older adults.* Poster presented at the National Conference of the Swiss Gerontological Society, Montreux, Switzerland.

Demiray, B., Mehl, M., & Martin, M. (2018). *Conversational time travel in everyday life: A naturalistic observation method.* Paper presented at the 3<sup>rd</sup> International meeting of the Psychonomic Society, Amsterdam, Netherlands.

Luo, M. \*, Demiray, B., Mehl, M. & Martin, M. (2017). *Verbal activities in the context of everyday conversations: A naturalistic observation study.* Poster presented at the 5<sup>th</sup> Biennial Conference of the Society for Ambulatory Assessment, Luxembourg.

Demiray, B., Mehl, M., & Martin, M. (2017). *Conversational time travel in everyday life: A naturalistic observation method.* Paper presented at the 5<sup>th</sup> Biennial Conference of the Society for Ambulatory Assessment, Luxembourg.

Demiray, B., & Martin, M. (2017). *The relation between conversational time travel and well-being: A naturalistic observation study.* Poster presented at the 4th International Conference "Aging & Cognition", Zurich, Switzerland.

Mischler, M. \*, Demiray, B., & Martin, M. (2017). *How older people reminisce in everyday life conversations: A naturalistic observation study.* Poster presented at the 4th International Conference "Aging & Cognition", Zurich, Switzerland.

Imfeld, M. \*, Demiray, B., & Martin, M. (2017). *Autobiographical memory in daily life conversations: Examining its functions and emotional characteristics in younger and older adults.* Poster presented at the 4th International Conference "Aging & Cognition", Zurich, Switzerland.

Ece, B., Demiray, B., & Gülgöz, S. (2016). *En eski anıların yeniden hatırlanması*. Paper presented at the 19th National Congress of Psychology, İzmir, Turkey.

Ece, B., Demiray, B., & Gülgöz, S. (2016). *Consistency of earliest memories*. Paper presented at the 6<sup>th</sup> International Conference on Memory, Budapest, Hungary.

Demiray, B., & Martin, M. (2016). *Talking about the personal past versus future in everyday life: A naturalistic observation study*. Poster presented at the 6<sup>th</sup> International Conference on Memory, Budapest, Hungary.

Demiray, B., & Martin, M. (2016). *Functions of recalling the past in everyday life: An experience sampling study with a focus on within-person variation*. Paper presented at the 6<sup>th</sup> International Conference on Memory, Budapest, Hungary.

Demiray, B., & Martin, M. (2016). *Conversational Time Travel: A naturalistic observation study*. Poster presented at the Conference on Mental Time Travel, Center on Autobiographical Memory Research, Aarhus, Denmark.

Demiray, B., Martin, M., Hernández, N., Yavuz, G., & Arnrich, B. (2016). *Within-person variability in the relation between mental time travel and mood: An experience sampling study in everyday life*. Poster presented at the Conference on Mental Time Travel, Center on Autobiographical Memory Research, Aarhus, Denmark.

Demiray, B., Mehl, M., Arnican, A. \*, & Mischler, M. \* (2016). *How much do people talk about their personal past in everyday life? A naturalistic observation study*. Poster presented at the Swiss Society of Gerontology Conference, Fribourg, Switzerland.

Untersander, S. \* & Demiray, B. (2015). *Reducing negative mood associated with mind wandering*. Poster presented at the 14<sup>th</sup> Congress of the Swiss Psychological Society, Geneva, Switzerland.

Demiray, B. & Bluck, S. (2014). *Using memory to maintain self-continuity: Roles of self-concept clarity and extraversion*. Poster presented at the 17<sup>th</sup> European Conference on Personality, Lausanne, Switzerland.

Demiray, B., Mehl, M. & Martin, M. (2014). *How much do people talk about their future in everyday life? A naturalistic observation study*. Poster presented at the International Conference on Prospective Memory, Naples, Italy.

Demiray, B. & Mehl, M. (2014). *How much do people talk about their personal past in everyday life? A naturalistic observation study*. Poster presented at the Swiss Society of Gerontology Conference, Fribourg, Switzerland.

Demiray, B. & Freund, A. M. (2013). *Self-appraisal across the adult lifespan*. Paper presented at the German Society of Gerontology and Geriatrics Congress, Ulm, Germany.

Demiray, B. & Freund, A. M. (2013). *The self-enhancement function of autobiographical memory*. Paper presented at the Society for Applied Research in Memory & Cognition, 10<sup>th</sup> Biennial Meeting, Rotterdam, Netherlands.

Demiray, B. & Freund, A. M. (2013). *Psychological temporal distance of positive and negative flashback memories*. Poster presented at the Society for Applied Research in Memory & Cognition, 10<sup>th</sup> Biennial Meeting, Rotterdam, Netherlands.



Janssen, S. M. J., Demiray, B. & Rubin, D. (2013). *Cross-cultural differences in the temporal distribution of highly important personal events*. Poster presented at the Conference on Clinical Perspectives on Autobiographical Memory, Center on AM Research, Aarhus, Denmark.

Demiray, B. & Freund, A. M. (2013). *Michael Jackson, Bin Laden and I – Functions of flashbulb memories about public versus private events*. Poster presented at the Conference on Clinical Perspectives on Autobiographical Memory, Center on AM Research, Aarhus, Denmark.

Demiray, B. (2012). Chair of Symposium “*Looking Forward To It! Multiple Roles of Future Time Perspective across Adulthood*” at the Gerontological Society of America, 65th Annual Meeting, San Diego, USA.

Demiray, B. & Bluck, S. (2012). *Future time perspective affects how the past is recalled in young adulthood and midlife*. Poster presented at the Gerontological Society of America, 65th Annual Meeting, San Diego, USA.

Sayali, Z. C. \*, Ece-Usta, B., Demiray, B., & Gülgöz, S. (2012). *Second reminiscence bump in Turkish adults above age 60*. Poster presented at the 17<sup>th</sup> National Psychology Congress, Istanbul, Turkey.

Demiray, B. & Freund, A. M. (2012). *This seems really far away (when it failed), but that feels very close (when I succeeded)*. Poster presented at the Conference on Clinical Perspectives on Autobiographical Memory, Center on AM Research, Aarhus, Denmark.

Janssen, S. M. J. & Demiray, B. (2012). *Self-esteem and the retrieval of positive autobiographical memories*. Poster presented at the Conference on Clinical Perspectives on Autobiographical Memory, Center on AM Research, Aarhus, Denmark.

Demiray, B., & Janssen, S. M. J. (2011). *Self-enhancement function of autobiographical memories in young and middle-aged adults*. Paper presented at the Society for Applied Research in Memory & Cognition, 9<sup>th</sup> Biennial Meeting, New York, USA.

Sayali, Z. C. \*, Ozden, A., Demiray, B., & Gülgöz, S. (2011). *Second reminiscence bump in elderly Turkish adults*. Poster presented at the Regional Conference of the International Association for Cross-Cultural Psychology, Istanbul, Turkey.

Demiray, B., & Bluck, S. (2011). *Future time perspective and psychological well-being in young adulthood and late midlife*. Poster presented at the 12<sup>th</sup> European Congress of Psychology, Turkey.

Demiray, B., & Bluck, S. (2010). *The relation of self to memory: Comparing young and middle-aged adults' earliest and recent memories*. Poster presented at the Conference on Theoretical Perspectives on Autobiographical Memory, Center on AM Research, Aarhus, Denmark.

Demiray, B., & Gülgöz, S. (2009). *Earliest memories are special, especially for middle-aged adults*. Poster presented at the 117<sup>th</sup> Convention of the American Psychological Association, Canada.

Gülgöz, S., & Demiray, B. (2009). *The vulnerability of earliest memories*. Paper presented at the Psychonomic Society, 50<sup>th</sup> Annual Meeting, Boston, USA.

Demiray, B., Gülgöz, S., & Bluck, S. (2008). *Why are earliest memories so memorable?* Paper presented at the Psychonomic Society, 49<sup>th</sup> Annual Meeting, Chicago, USA.

Demiray, B., & Gülgöz, S. (2006). *Reminiscence bump in timeline: Support for novelty, significance for personality development, life scripts and distinctiveness*. Paper presented at the Psychonomic Society, 47<sup>th</sup> Annual Meeting, Texas, USA.

Demiray, B., & Gülgöz, S. (2006). *Why do adults remember more from young adulthood?* Paper presented at the 14<sup>th</sup> National Psychology Congress, Istanbul, Turkey.

Demiray, B., & Gülgöz, S. (2006). *Reminiscence bump in timeline*. Paper presented at the 4<sup>th</sup> International Conference on Memory, Sydney, Australia.