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<https://www.psychologie.uzh.ch/de/bereiche/dev/geronto/team/bdemiray.html>

https://www.hlc.uzh.ch/en/people/group_leaders/bdemiray.html

<https://info.wise-learn.com/en/welcome/>



Profile

- 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 startup: Ed-tech for aging individuals supporting healthy longevity

Professional Positions

2022 - present	Research & Innovation Group Leader “CogInno”, University of Zurich (UZH) Department of Psychology & Healthy Longevity Center
2020 - present	Founder and Manager, OldSchool (now WiseLearn) “An e-learning concept and platform for senior learners”
2018 - present	Community Member, University of Zurich Digital Society Initiative (DSI), “Education” and “Health” Communities
2018 - 2020	Senior Research Fellow, University of Zurich - ETH - ZHdK Collegium Helveticum, Project Coordinator “Semantic Health Text Analytics”
2015 - 2020	Senior Researcher, University of Zurich University Research Priority Program “Dynamics of Healthy Aging”
2015 - 2021	Research Group Leader “Semantic Activity Analytics for Healthy Aging”, University of Zurich Department of Psychology, Chair of Gerontopsychology*
2013 - 2015	Research Associate, University of Zurich Department of Psychology, Chair of Gerontopsychology*
2011 - 2013	Postdoctoral Researcher, University of Zurich 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

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

Ongoing Education

09. 2023 - 05. 2024	University of Zurich Continuing Education Program, "Teaching Skills" Course (7 ECTS)
10. 2023 - 09. 2024	ThePower MBA One-year online MBA Program with certification

Honors & Awards

2022	Vontobel Foundation Vontobel Award for Research on Age and Aging Senior author in winning paper <i>"Predicting working memory in healthy older adults using real-life language and social context information: A machine learning approach"</i>
04. & 05. 2020	Versus Virus Hackathon I & II, Swiss Federation Winner in both Hackathons with Project OldSchool (15'200 Swiss Francs)
2019	Vontobel Foundation Vontobel Award for Research on Age and Aging (12'500 Swiss Francs) First author in winning paper <i>"Reminiscence in everyday conversations: A naturalistic observation study of older adults"</i>
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

Grants and Fellowships

2024	Walder Stiftung (Walder Foundation) , Switzerland PI for Project " <i>Understanding and preventing ageism in Switzerland</i> " (60'000 Swiss Francs for 12 months)
2024	University of Zurich, Competitive Innovative Teaching Fund PI for developing a new graduate seminar " <i>Ageism: Research, Innovation and Policy Considerations</i> " (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 " <i>Revolutionizing education60+: Digital lifelong learning</i> " (598'338 Swiss Francs for 18 months)
2022	Digitalization Initiative of the Zurich Higher Education Institutions (DIZH) Innovation Programme, Structure Call 2022 PI for Structure " <i>Revolutionizing education60+: Digital lifelong learning</i> " Unsuccessful application was ranked 5 th (A total of 4 were funded) (2'892'048 Swiss Francs were requested for 3.5 years)
2022 - 2024	Erasmus+ Cooperation Partnerships in Higher Education (KA2) PI for Erasmus+60 Project, Part " <i>Development of digital lifelong learning methods and tools</i> " (274'934 Euros)
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 " <i>Statistical Analyses with R</i> " (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 “ <i>Functional approach to memory and well-being across the adult lifespan</i> ” (65'641 Swiss Francs)
2012 - 2013	Suzanne and Hans Biäsch Foundation , Competitive Applied Psychology Fund PI for Project “ <i>Ecological approach to autobiographical memory and well-being in the context of healthy aging</i> ” (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)

Teaching

University of Zurich, Psychology Department

Fall 2024	Ageism: Research, Innovation and Policy Considerations (graduate seminar)
Spr 2024	Innovation in Healthy Longevity (graduate seminar)
Spr 2022 & 2023	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)

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 (16):Completed:

Sarah Untersander, Marianne Mischler, Mirjam Imfeld, Elisabeth Schoch, Caroline Winkler, Eliana Brianza, Cornelia Ursprung, Leah Knecht, Kathrin Inerle, Laura Breitfelder, Irena Stanisic

Ongoing:

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

Julia Sulzmann *“Does e-learning tailored to the age of learners lead to greater learning success?”*

Aline Dietsche *“Learning together online – How to get started with e-learning in late life?”*

Fabienne Joos *“Does sense of social presence influence the learning performance of Seniors University students in an e-learning environment?”*

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

Bachelor’s theses (12):

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

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

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)
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 Society for Applied Research on Memory and Cognition (SARMAC)
2023	Career Mentor Alumni Mentorship Network, Koc University, Istanbul Mentoring 4 th 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"> • Healthy Longevity Center (5 Mio Swiss Francs, 2022-2026) • 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 " <i>Statistical Analyses with R</i> " (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

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 th 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)

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 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 nd Healthy Longevity Innovation Days, UZH (2days)
02. 2022	Design Your Life Workshop, Girls in Tech Switzerland
11. 2021	BrainFit4Life Symposium “Implementation of Global Technologies for Brain Health”, BrainFit4Life
10. 2021	#WeTechTogether Conference, TechFace (Tech for women), Zurich
06.2021	1 st Healthy Longevity Innovation Days, UZH (2days)
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 (2days)
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 (2days) Graduate Campus, UZH
09. 2019	Workshop on “Text Analytics for Health: Applications and Implications”, Digital Society Initiative, UZH
09. 2018	Data Management Workshop (2days) Graduate Campus, UZH

Innovation & Entrepreneurship

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)

Invited Talks:

11. 2023 Swissuniversities Association, FemSpin Project, Workshop
 (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)
 (2) Ddrobotec by Dynamic Devices, AG (Technopark 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 University of Zurich (UZH) News
<https://www.news.uzh.ch/de/articles/news/2024/seniorenuniversitaet.html>

09. 2023 University of Zurich (UZH) Magazin, Dossier “Gesund Älter werden”
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
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"

Ad-hoc Reviewer

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

Society for Ambulatory Assessment (SAA)
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

Turkish: Mother tongue
English: Fluent
German: Intermediate (B1 Level, TELC Certificate)

Publications (* = Student co-author)

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.

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. *Aging & Mental Health*, 1-10.

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*.

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.

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.

Demiray, B., Mehl, M. R., & Martin, M. (2018). Conversational time travel: Evidence of a retrospective bias in real life conversations. *Frontiers in Psychology*. <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.

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>

Demiray, B., & Freund, A. M. (2017). The psychological distance of memories: Examining causal relations with mood and self-esteem in young, middle-aged and older adults. *Consciousness and Cognition*, *49*, 117-131.

Demiray, B., & Freund, A. M. (2015). Michael Jackson, Bin Laden and I: Functions of positive and negative, public and private flashbulb memories. *Memory*, *23*(4), 487-506.

Demiray, B., & Janssen, S. M. J. (2015). The self-enhancement function of autobiographical memory. *Applied Cognitive Psychology*, *29*(1), 49-60.

Maki, Y., Kawasaki, Y., **Demiray**, B., & Janssen, S. M. J. (2015). Autobiographical memory functions in young Japanese men and women. *Memory*, *23*(1), 11-24.

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.

Demiray, B., & Bluck, S. (2011). Relation of the conceptual self to recent and distant autobiographical memories. *Memory*, *19* (8), 975-992.

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.

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.

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.

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.

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 gelişmeler (Methods in autobiographical memory research). In S. Gülgöz, B. Ece, & S. Öner (Eds.), *Hayatı hatırlamak: Otobiyografik Belleğin Psikolojisi*. Koc University Publishing.

Hernández, N., Arnrich, B., Favela, J., Ersoy, C., **Demiray**, B., & Fontecha, J. (2017). A multi-site study on walkability, data sharing and privacy perception using mobile sensing data gathered from the mk-sense platform. *Journal of Ambient Intelligence and Humanized Computing*, 1-13. <https://doi.org/10.1007/s12652-017-0642-x>.

Hernández, N., Arnrich, B., Favela, J., Yavuz, G. R., Ersoy, C., **Demiray**, B., & Fontecha, J. (2016, January). mk-sense: An extensible platform to conduct multi-institutional mobile sensing campaigns. *In Ubiquitous Computing and Ambient Intelligence*. (pp. 207-216). DOI: 10.1007/978-3-319-48746-5_21

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

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.

Demiray, B., Inerle, K.* & Martin, M. (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)

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, 14th 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, 14th 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.

Jeszszky, 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, 13th 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 3rd 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 5th 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 5th 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, Izmir, Turkey.

Ece, B., Demiray, B., & Gülgöz, S. (2016). *Consistency of earliest memories*. Paper presented at the 6th 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 6th 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 6th 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 14th 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 17th 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, 10th Biennial Meeting, Rotterdam, Netherlands.

Demiray, B. & Freund, A. M. (2013). *Psychological temporal distance of positive and negative flashbulb memories*. Poster presented at the Society for Applied Research in Memory & Cognition, 10th 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 17th 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, 9th 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 12th 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 117th Convention of the American Psychological Association, Canada.

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

Demiray, B., Gülgöz, S., & Bluck, S. (2008). *Why are earliest memories so memorable?* Paper presented at the Psychonomic Society, 49th 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, 47th Annual Meeting, Texas, USA.

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

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