

**PATRICIA ANN REUTER-LORENZ**  
**Michael I Posner Collegiate Professor of Psychology**  
**University of Michigan**  
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**Education:**

Ph.D. 1987 University of Toronto (Psychology)  
M.A. 1981 University of Toronto (Psychology)  
B.A. 1979 State University of New York, Purchase (Psychology, with Honors)

**Present Positions:**

2016-present Michael I. Posner Collegiate Professor of Psychology & Neuroscience  
2022-present Co-Director, International Max Planck Research School on the LIFE course  
2012-present Faculty Associate, Survey Research Center, Institute for Social Research

**Previous Positions:**

2015-2022 Chair, Department of Psychology, University of Michigan  
2002-2015 Professor, Department of Psychology, University of Michigan  
2008-2017 Co-Director, International Max Planck Research School on the LIFE course  
2012 (Spring) Visiting Scientist, Max Planck Institute for Lifespan Development, Berlin, Germany  
2012 (Winter) Visiting Scientist, Center for Vital Longevity, UT Dallas  
2009 (Spring) Visiting Scholar, Wales Institute of Cognitive Neuroscience & University of Wales, Bangor  
2002-2005 Chair, Cognition and Cognitive Neuroscience Area, University of Michigan  
1997-2002 Associate Professor, Department of Psychology, University of Michigan  
1992-1997 Assistant Professor, Department of Psychology, University of Michigan  
1988-1991 Research Assistant Professor, Program in Cognitive Neuroscience, Department of Psychiatry, Dartmouth Medical School, Hanover, NH  
1989-1991 Adjunct Assistant Professor, Dept. of Psychology, Dartmouth College, Hanover, NH  
1986-1988 Postdoctoral Fellow, Cognitive Neuroscience, Cornell University Medical College NY  
1986 Research Fellow, Washington University Medical School, St. Louis, MO  
1983-1984 Neuropsychology Intern, Clarke Institute of Psychiatry, Toronto  
1980-1985 Teaching Fellow, University of Toronto

**Awards and Honors:**

2023 Baltes Distinguished Research Achievement Award, APA, Division 20  
2022 Elected Fellow of the American Association for the Advancement of Science  
2019 Inaugural Distinguished University Chair Lectureship, University of Florida--Gainesville  
2016 Collegiate Professorship, University of Michigan  
2015 Distinguished Faculty Achievement Award, University of Michigan  
2013 Fellow of the Psychonomic Society  
2012 Fellow of the Society of Experimental Psychologists  
2010 Justine & Yves Sergent Award for International Accomplishments in Cognitive Neuroscience  
2009 Outstanding Mentor Award, American Psychological Association, Division 20  
2009 Fellow of the Association of Psychological Science

2007	Outstanding Mentor Award, University of Michigan, Undergraduate Research Opportunity Program (UROP)
2003	University of Michigan, Faculty Recognition Award for Outstanding Scholarship, Teaching, and Service
2000	Career Development Award, University of Michigan
1999	Excellence in Research Award, University of Michigan
1998	Rackham Faculty Fellowship, University of Michigan
1995	International Institute Travel Award, University of Michigan
1995	Research Partners Award, Rackham Graduate School
1985-1986	Ontario Government Scholarship
1984-1985	University of Toronto Open Fellowship
1983	University of Toronto, Life Sciences Fellowship
1980-1983	National Science Foundation Graduate Fellowship

**Professional Memberships:**

American Association for the Advancement of Science (Fellow)  
 American Psychological Association  
 APA, Division 20, Adult Development and Aging  
 Association for Psychological Science (Fellow)  
 Cognitive Neuroscience Society  
 International Neuropsychology Symposium  
 International Society for Behavioral Neuroscience  
 Memory Disorders Research Society  
 Psychonomics Society (Fellow)  
 Society of Experimental Psychologists

**Scientific and Professional Responsibilities (abbreviated):**

MacMillan Textbook Advisory Panel - The Developing Person Through the Life Span (2024-present)  
 Institute of Gerontology National Steering Committee Member, Wayne State University (2022-present)  
 External Advisory Committee: Cognitive Neuroscience of Development & Aging (CoNDA) Center, University of Nebraska (2019-present)  
 Editorial Board: *Aging, Neuropsychology and Cognition* (2010-2012, 2015-2024)  
 Governing Board, Cognitive Neuroscience Society, (1992-2005; *ex officio*: 2006-present)  
 Editorial Board: *Journal of Cognitive Neuroscience* (2004-2020)

Editorial Board: *Psychological Science* (2009-2019)  
 Governing Board, Psychonomic Society (2014-2019)  
 Psychonomic Society, Annual Meeting Program Committee Chair (2015)  
 Scientific Advisory Board, Max Planck Institute for Human Development, Berlin (2007-2017)  
 AFAR (Association for Advancement of Aging Research) Scientific Advisory Council (2010-2017)  
 Section Editor, *Neuropsychologia*, (2013-2015)  
 Editor-in-Chief, *Aging, Neuropsychology and Cognition* (2012-2015)  
 Editorial Board: *Journal of Experimental Psychology: LMC* (2007-2015)  
 Editorial Board: *Psychology and Aging*, (2003-2007, 2012-2015)  
 Associate Editor: *Neuropsychologia*, (2001-2012)  
 Program Committee, Cognitive Neuroscience Society (2012-2013 for 20th anniversary meeting)  
 2011 Grawemeyer Award in Psychology Committee, University of Louisville, Kentucky  
 Program Committee, Chair, Cognitive Neuroscience Society (2006-2011)  
 External review committee, Institute of Psychology of the University Zurich (2010)  
 Associate Editor: *Cognitive, Affective, & Behavioral Neuroscience*, (2003-2007)  
 Associate Editor: *Psychonomic Bulletin and Review*, (2000-2002)  
 Editorial Board: *Psychonomic Bulletin and Review*, (1999-2000)  
 Editorial Board: *Cognitive, Affective, & Behavioral Neuroscience*, (2000-2003)

Women in Cognitive Science, Travel Award Committee (2004-2005)  
 NIH Blueprint, Workshop on Harnessing Neuroplasticity for Human Applications (2009)  
 NIH Workshop on Cognitive Rehabilitation (2004)  
 NIH- Integrative, Functional and Cognitive Neuroscience IRG, (Ad hoc member 2001, 2003-2004)  
 NIH—Aging, Neuroimaging and Cognition, SEP (2003)  
 Max Planck Society- Presidential Commission on Gerontology (2003)  
 NSF Cognitive Neuroscience Review Panel, 2001  
 Founding Committee, Cognitive Neuroscience Society, (1993-1995)

**Mentoring and Diversity related Service:**

2015-2022 DEI oversight for the Department of Psychology as Department Chair, including diversity workshops and training for leaders, for department faculty, recruitment events for graduate students, for the department more broadly.

2016 Mentor, Women in Cognitive Science

2015 NextProf Psychology Liaison, University of Michigan

2014-2015 University of Michigan, Psychology Diversity committee

2012-2014 University of Michigan, Psychology Student Affairs committee

2013 Panelist, Women in Cognitive Science Professional Development Seminar

2011 Lecturer, FENS-IBRO Research School, University of Geneva

2009-2015 Panelist and member, First Generation University Student Support Group, UM-Rackham Graduate School

2008-2015 Co-Director, International Max Planck Research School on the LIFE course; This service includes the conduct of bimonthly research seminars with graduate students in lifespan psychology, organizing biennial 5-day Lifespan Academy meetings of graduate students and faculty in this international training program

2008-2009 Director, Distinguished Faculty/Graduate Seminar, *Mental Health & Well Being: Translational Approaches for Basic Psychological Research*, funded by the Office of the Vice President for Research and the Michigan Institute for Clinical and Health Research.

2008-2010 Research Mentor, Catholic Central High School, Grand Rapids, MI

2007-2009 Psychology Department, Graduate Committee

2005-2010 Mentor, Linda Langley, Assistant Professor and Director, Cognitive Aging Lab, North Dakota State University, NIH- Center of Excellence in Biomedical Research (COBRE)

2002 Director, Aging Mind & Brain Week, Summer Institute in Cognitive Neuroscience

1991-1996 Steering Committee, Women in Cognitive Neuroscience

1991-1992 Educational Consultant, McDonnell Summer Institute in Cognitive Neuroscience

1988-1991 Associate Director, McDonnell Summer Institute in Cognitive Neuroscience

**Grants:**

2021-2026 NIH, Research Program on Cognition and Neuromodulation Based Interventions (Co-I), \$4,252,577

2015-2020 NIA, Working Memory Training in Older Adults, (Participating Investigator with specified effort), \$1,586,064.

2015-2017 NIA, “Manual Dexterity: Age Differences in Cortical Sensorimotor Representations” (Participating Investigator with specified effort), \$2,487,224.

2014-2016 NIA, “Working Memory Training, Neural Correlates and Aging” (PI), \$427,000

2012-2015 NASA, “Bed Rest as A Spaceflight Analog To Study Neurocognitive Changes” (Co-I), \$80,000

2011-2019 NASA, “Spaceflight Effects on Neurocognitive Performance: Extent, Longevity, and Neural Bases.” (Co-I), \$80,000

2011-2014 Department of Education: “Auditory and Visual Working Memory in Children with Cerebral Palsy” (Co-I), \$599,278

2008-2013 National Institute of Health: “Altered Brain Function in Chemotherapy for Breast Cancer”, (Co-I), \$1,371,587.

2008-2009 OVPR “Training executive functions” \$15,000

2008	OVPR/Rackham Summer Research Grant: "Training the aging brain", \$4000
2005-2010	National Institute on Aging: "Skill Acquisition in Older Adults" (Co-I), \$820,000
2001-2006	National Institute on Aging: "Neurocognitive Aging of Working Memory Storage and Executive Processes," (PI), \$1,391,000
2000	Undergraduate Research Opportunity Program Faculty Mini-Grant: Cognitive Neuroscience of Human Laterality: A multi-media tutorial. (PI), \$5000.
1999	Rackham Spring/Summer Research Grant: Executive functions of the left and right hemispheres: Insights from the bisected brain. (PI), \$3000.
1999-2001	Michigan Alzheimer's Disease Research Center: "Interhemispheric interactions in Alzheimer's Disease: Behavioral Measures of the Corpus Callosum," (PI), \$15,000.
1998	Center for Applied Cognitive Research on Aging: "Hemispheric recruitment: A compensatory mechanism in the aging brain." (PI), \$2950
1996-1998	Center for Applied Cognitive Research on Aging: "Interhemispheric interactions and aging: A Model of resource depletion", (PI), \$2750
1996-1998	Rackham Grant and Fellowship Award: "The role of the egocentric frame of reference in spatial attention," (PI), \$15,000
1995-2000	National Institute on Aging: "Age and working memory: neuroimaging and behavioral studies," (Co-PI), \$1,300,000
1995-1997	Center for Research on Learning and Teaching- Faculty Development Fund: "Human neuropsychology: A curriculum for the 21st century," (PI), \$5000
1994-1995	University of Michigan Geriatrics Center Pilot/Feasibility Grant "Neurobehavioral studies of age-related changes in working memory," (PI), \$20,000
1993-1995	McDonnell-Pew Program in Cognitive Neuroscience, "A Neurocognitive analysis of multiple form perception," (PI), \$60,000
1992-1993	Office of the Vice President for Research, Preliminary Project Award, University of Michigan, (PI), \$15,000
1990-1993	National Institute of Health: "Brain mechanisms of overt and covert orienting," (Co-PI), \$135,000
1989-1992	Air Force Office of Scientific Research: "Multi-modal control of overt and covert orienting," (Co-PI), \$300,000

#### **Publications - Books:**

- Reuter-Lorenz, P.A., Baynes, K., Mangun, G.R., Phelps, E.A. (2010). *The Cognitive Neuroscience of Mind: A Tribute to Michael S. Gazzaniga*. MIT Press.
- Baltes, P., Reuter-Lorenz, P.A., Roesler, F. (2006) *Lifespan Development and the Brain: The Perspective of Biocultural Co-Constructivism*. Cambridge University Press.

#### **Publications - Peer-reviewed Journals (148 total published):**

1. Babu, H.J., Jantz, T.K., Xie, K. & **Reuter-Lorenz, P.A.** (in press). Strategy effects and value directed recall of sub- and supra-span word lists. *Memory & Cognition*.
2. Hwang, J., Liu, C., Winesett, S.P., Fettrow, T., Shah, V., Chatterjee, S.A., Manini, T.M., Hass, C.J., Seidler, R.D., Ferris, D.P., Roy, A., **Reuter-Lorenz, P.A.** & Clark, D.J. (2026). Declines in uneven terrain walking speed are associated with visuospatial working memory performance among older adults. *Frontiers in Aging Neuroscience*. <https://doi.org/10.3389/fnagi.2025.1644741>
3. Tays, G., Fettrow, T.D., McGregor, H., Hupfeld, K.E., De Dios, Y.E., **Reuter-Lorenz, P.A.**, Bloomberg, J.J., Mulavara, A.P., Wood, S.J., & Seidler, R.D. (2025). Sensory network segregation as a predictor of post spaceflight balance impairments and sensory re-weighting. *Microgravity*.
4. McGregor, H. R., Hupfeld, K.E., Pasternak, O., Beltran, N.E., De Dios, Y. E., Bloomberg, J., Wood, S. J., Riascos, R. F., **Reuter-Lorenz, P. A.**, & Seidler, R. D. (2025). Crewmember demographic factors and their association with brain and ocular changes following spaceflight. *Microgravity*, **11**, 59 (2025). <https://doi.org/10.1038/s41526-025-00505-9>

5. Shah, V.A., Cruz-Almeida, Y., Roy, A., Cenko, E., Downey, R.J., Ferris, D.P., Hass, C.J., **Reuter-Lorenz, P.A.**, Clark, D.J., Manini, T.M., Seidler, R.D., (2025). Correlates of gait speed changes during uneven terrain walking in older adults: differential roles of cognitive and sensorimotor function. *Experimental Brain Research*, 243 (3), 1-13.
6. Tays, G., Hupfeld, K.E., McGregor, H., Banker, L.A., De Dios, Y.E., Bloomberg, J.J., **Reuter-Lorenz, P.A.**, Mulavara, A.P., Wood, S.J., & Seidler, R.D. (2025). The microgravity environment affects sensorimotor adaptation and it's neural correlates. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhae502>
7. Xie, K., & **Reuter-Lorenz, P.A.** (2024). The impact of working memory testing on long-term associative memory. *Memory & Cognition*, 52: 1626-1652. <https://doi.org/10.3758/s13421-024-01568-x>
8. **Reuter-Lorenz, P. A.** & Park, D. C. (2024). Cognitive aging and the life course: A new look at the Scaffolding Theory. *Current Opinion in Psychology*, 56:101781
9. McGregor, H.R., Hupfeld, K.E., Pasternak, O., Beltran, N.E., De Dios, Y.E., Bloomberg, J.J., Wood, S.J., Mulavara, A.P., Riascos, R.F., **Reuter-Lorenz, P.A.**, & Seidler, R.D. (2023). Impacts of Spaceflight Experience on Human Brain Structure. *Scientific Reports*, 13(1) 7878.
10. Frank, C., Iordan, A., & **Reuter-Lorenz, P.A.** (2023). Biden or Trump?: Working memory for emotion predicts affective forecasting accuracy. *Emotion*. 24(1), 139-149. <https://doi.org/10.1037/emo0001258>
11. Fafrowicz, M., Ceglarek, A., Olszewska, J., Sobczak, A., Bohaterewicz, B., Ostrogorska, M., **Reuter-Lorenz, P.**, Lewandowska, K., Sikora-Wachowicz, B., Oginska, A., Hubalewska-Mazgaj, M., Marek, T. (2023). Dynamics of working memory processes revealed by independent component analysis in an fMRI study. *Scientific Reports*. 13: 2900; <https://doi.org/10.1038/s41598-023-29869-2>
12. Salazar, A. P., McGregor, H. R., Hupfeld, K. E., Beltran, N. E., Kofman, I. S., De Dios, Y. E., Riascos, R. F., **Reuter-Lorenz, P. A.**, Bloomberg, J. J., Mulavara, A. P., Wood, S. J., & Seidler, R. D. (2023). Changes in working memory brain activity and task-based connectivity after long-duration spaceflight. *Cerebral Cortex*, 33 (6), 2641-2654 <https://doi.org/10.1093/cercor/bhac232>
13. Hao, C., Lin, Z., Cabrera, L.E., **Reuter-Lorenz, P.A.**, & Lewis, R.L., (2022). Why do valence asymmetries emerge in value learning? A reinforcement learning account. *Cognitive, Affective and Behavioral Neuroscience*. <https://doi.org/10.3758/s13415-022-01050-8>
14. Hupfeld, K.E., McGregor, H. R., Koppelmans, V., Beltran, N.E., Kofman, I. S. , De Dios, Y. E., Riascos, R., **Reuter-Lorenz, P. A.**, Wood, S. J., Bloomberg, J. J., Mulavara, A. P., Seidler, R. D. (2022). Brain and behavioral evidence for reweighting of vestibular inputs with long-duration spaceflight. *Cerebral Cortex*, **32(4)**, 755-769.
15. Tays, G., Hupfeld, K.E., McGregor, H., Salazar, A.P., De Dios, Y.E., Beltran, N., **Reuter-Lorenz, P.A.**, Kofman, I.S., Wood, S., Bloomberg, J., Mulavara, A., and Seidler, R.D. (2021). The effects of long duration spaceflight on sensorimotor control and cognition. *Frontiers in Neural Circuits*. **26, October**. <https://doi.org/10.3389/fncir.2021.723504>
16. Fettrow, T., Hupfeld, K.E., Tays, G., Clark, D.J., **Reuter-Lorenz, P.A.**, and Seidler, R.D. (2021). Brain activity during walking in older adults: Implications for compensatory versus dysfunctional accounts. *Neurobiology of Aging*, 105, 349-365.
17. Iordan, A.D., Moored, K.D., Katz, B., Cooke, K.A., Buschkuhl, M., Jaeggi, S. M., Polk, T.A., Peltier, S.J., Jonides, J., & **Reuter-Lorenz, P.A.** (2021). Age differences in functional network reconfiguration with working memory training. *Human Brain Mapping*, 42 (6), 1888-1909.
18. Hupfeld, K.E., McGregor, H. R., **Reuter-Lorenz, P. A.**, & Seidler, R. D. (2021). Microgravity effects on the human brain and behavior: Dysfunction and adaptive plasticity. *Neuroscience and Biobehavioral Reviews*, 122, 176-189.
19. Frank, C., Iordan, A., Ballouz, T., Mikels, J., & **Reuter-Lorenz, P.A.** (2021). Affective forecasting: A Selective relationship with working memory for emotion, *Journal of Experimental Psychology: General*. 150(1), 67-82. <https://doi.org/10.1037/xge0000780>
20. Jantz, T.K., Festini, S.B., & **Reuter-Lorenz, P.A.** (2020). Failing to forget: Evidence for both impaired and preserved working memory control in older adults. *Aging, Neuropsychology & Cognition*. Nov 3:1-23. doi: 10.1080/13825585.2020.1839012. PMID: 33141653
21. Lin, Z., Cabrera, L.E., & **Reuter-Lorenz, P.A.** (2020). Asymmetrical learning and memory for acquired gain and loss associations. *Cognition*, **202**, <https://doi.org/10.1016/j.cognition.2020.104318>

22. Hupfeld, K.E., McGregor, H. R., Lee, J. K., Gadd, N., Kofman, I. S., De Dios, Y. E., **Reuter-Lorenz, P. A.**, Riascos, R., Pasternak, O., Wood, S. J., Bloomberg, J. J., Mulavara, A. P., Seidler, R. D. (2020). The impact of six and twelve months in space on human brain structure and intracranial fluid shifts. *Cerebral Cortex Communications* **1(1)**. <https://doi.org/10.1093/texcom/tgaa023>
23. Botvinik-Nezer, Holmeister, F., Camerer, C.F. et al., (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, **582**, 84-88. <https://doi.org/10.1038/s41586-020-2314-9>
24. Jordan, A.D., Cooke K.A., Moored, K.D., Katz B., Buschkuehl M., Jaeggi, S. M., Jonides, J., Peltier, S.J., Polk, T.A., & **Reuter-Lorenz, P.A.** (2020). Neural correlates of working memory training: Evidence for plasticity in older adults. *Neuroimage*, **217**, <https://doi.org/10.1016/j.neuroimage.2020.116887>
25. Cassady, K., Ruitenberg, M.F.L., **Reuter-Lorenz, P.A.**, Tommerdahl, M., & Seidler, R.D., (2020). Neural dedifferentiation across the lifespan in the motor and somatosensory systems. *Cerebral Cortex*, <https://doi.org/10.1093/cercor/bhz336>
26. Clark, D.J., Manini, T.M., Ferris, D.P., Hass, C.J., Brumback, B.A., Cruz-Almeida, Y., Pahor, M., **Reuter-Lorenz, P.A.**, Seidler, R.D., (2020) Multimodal imaging of brain activity to investigate walking and mobility decline in older adults (Mind in Motion Study): Hypothesis, Theory, and Methods. *Frontiers in Aging Neuroscience* Article type: Study Protocol. <https://doi.org/10.3389/fnagi.2019.00358>
27. Ruitenberg, M., Cassady, K., **Reuter-Lorenz, P.A.**, Tommerdahl, M. & Seidler, R. (2019). Age-related reductions in tactile and motor inhibitory function start early but are independent. *Frontiers in Aging Neuroscience*. <https://doi.org/10.3389/fnagi.2019.00193>
28. Jaeggi, S.M., Buschkuehl, M., Parlett-Pelleriti, C.M., Moon, S.M., Evans, M., Kritzmacher, A., **Reuter-Lorenz, P.A.**, Shah, P., Jonides, J. (2019). Investigating the effects of spacing on working memory training outcome – a randomized controlled multi-site trial in older adults. *Journal of Gerontology: Psychological Sciences*. <https://doi.org/10.1093/geronb/gbz090>
29. Mikels, J.A. & **Reuter-Lorenz, P.A.** (2019). Affective working memory: An integrative psychological construct. *Perspectives in Psychological Science*. doi: 10.1177/1745691619837597; PMID 31058662
30. Kardan, O., **Reuter-Lorenz, P.A.**, Peltier, S., Churchill, N.W., Misic, B., Askren, M.K., Jung, M., Cimprich, B. Berman, M.G., (2019). Brain connectivity tracks effects of chemotherapy separately from behavioral measures. *Neuroimage: Clinical*. doi: 10.1016/j.nicl.2019.101654
31. **Reuter-Lorenz, P.A.** & Jordan, A. D. (2018). From cognitive tasks to cognitive theories and back again: Fitting data to the real world. *Journal of Applied Research in Memory and Cognition*, **7(4)**, 510-513.
32. Koppelmans, V., Scott, J.M., Downs, M.E., Cassady, K.E., Yuan, P., Pasternak, O., Wood, S.J., De Dios, Y.E., Gadd, N.E., Kofman, I.S., Riascos, R., **Reuter-Lorenz, P.A.**, Bloomberg, J.J., Mulavara, A.P., Ploutz-Snyder, L.L., & Seidler, R.D. (2018). Exercise effects on bed rest-induced brain changes. *PLoS One*. Oct 11;13(10):e0205515. doi: 10.1371/journal.pone.0205515; PMID 30308004
33. Ruitenberg, M., Koppelmans, V., De Dios, Y., Gadd, N., Wood, S., **Reuter-Lorenz, P.A.**, Kofman, I., Bloomberg, J., Mulavara, A., & Seidler, R., (2018). Neural correlates of multi-day learning and savings in sensorimotor adaptation. *Science Reports*. Sep 24;8(1):14286. doi: 10.1038/s41598-018-32689-4. PMID:30250049
34. Dimsdale-Zucker, H.A., Flegal, K.E., Atkins, A.S., & **Reuter-Lorenz, P.A.** (2018). Serial position-dependent false memory effects. *Memory*. doi.org/10.1080/09658211.2018.1513039; PMID: 30152262
35. Cabeza, R., Albert, A., Belleville, S., Craik, F.I.M., Duarte, A., Grady, C., Lindenberger, U., Nyberg, L., Park, D., **Reuter-Lorenz, P.A.**, Rugg, M.D., Steffener, J., and Rajah, M.N. (2018). Cognition and the aging brain: Maintenance, reserve, and compensation. *Nature Neuroscience Reviews*. Nov;19(11):701-710. doi: 10.1038/s41583-018-0068-2. PMID 30305711
36. Yuan, P., Koppelmans, V., **Reuter-Lorenz, P.A.**, De Dios, Y. E., Gadd, N., Wood, S. J., Riascos, R., Kofman, I., Bloomberg, J. J., Mulavara A. P., & Seidler, R. D. (2018). Vestibular brain changes with 70 days head down bed rest. *Human Brain Mapping*, **39(7)**, 2753-2763. PMID:29528169
37. Yuan, P., Koppelmans, V., **Reuter-Lorenz, P.A.**, De Dios, Y. E., Gadd, N., Wood, S. J., Riascos, R., Kofman, I., Bloomberg, J. J., Mulavara A. P., & Seidler, R. D. (2018). Change of cortical foot activation following 70 days of head down bed rest. *Journal of Neurophysiology*. doi: 10.1152/jn.00693.2017, PMID:29488843
38. Jordan, A.D., Cooke K.A., Moored, K.D., Katz B., Buschkuehl M., Jaeggi, S. M., Jonides, J., Peltier, S.J., Polk, T.A., & **Reuter-Lorenz, P.A.** (2018). Aging and Network Properties: Stability over time and links with

- learning during working memory training. *Frontiers in Aging Neuroscience*.  
<https://doi.org/10.3389/fnagi.2017.00419> PMID: 29354048
39. Cassady, K., Ruitenberg, M., Koppelmans, V., **Reuter-Lorenz, P.A.**, De Dios, Y., Gadd, N., Wood, S., Riascos Castenada, R., Kofman, I., Bloomberg, J., Mulavara, A., & Seidler, R. D. (2017). Neural predictors of sensorimotor adaptation and savings. *Human Brain Mapping*. doi: 10.1002/hbm.23924
  40. Ruitenberg, M., De Dios, Y., Gadd, N., Wood, S., **Reuter-Lorenz, P.A.**, Kofman, I., Bloomberg, J., Mulavara, A., & Seidler, R., (2017). Multi-day adaptation and savings in manual and locomotor tasks. *Journal of Motor Behavior*. DOI: 10.1080/00222895.2017.1371110
  41. Koppelmans, V., Bloomberg, J.J., De Dios, Y.E., Wood, S.J., **Reuter-Lorenz, P.A.**, Kofman, I, Riascos, R., Mulavara, A.P., Seidler, R.D., (2017). Brain plasticity and sensorimotor deterioration as a function of 70 days head down tilt bed rest. *PLoS one*. Aug 2; 12(8) :e0182236
  42. Koppelmans, V., Pasternak, O, Bloomberg, J.J., De Dios, Y.E., Wood, S.J., Riascos, R., **Reuter-Lorenz, P.A.**, Kofman, I.S., Mulavara, A.P., Seidler, R.D. (2017) Intracranial fluid redistribution but no white matter microstructural changes during a spaceflight analog. *Scientific Reports*. 7, 3154.
  43. Festini, S.B. & **Reuter-Lorenz, P.A.** (2017). Rehearsal of to-be-remembered items is unnecessary to perform directed forgetting within working memory: Support for an active control mechanism. *Journal of Experimental Psychology: Learning, Memory & Cognition*. 43(1):94-108. doi: 10.1037/xlm0000308. PMID: 27668484
  44. Jung, M., Zhang, M., Askren, M.K., Berman, M.G., Peltier, S., Hayes, D.F., Therrien, B., **Reuter-Lorenz, P.A.**, Cimprich, B., (2017). Cognitive dysfunction and symptom burden in women treated for breast cancer: A Prospective behavioral and fMRI analysis. *Brain Imaging and Behavior*. DOI 10.1007/s11682-016-9507-8 PMID:26809289
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145. **Reuter-Lorenz, P.A.**, Kinsbourne, M., & Moscovitch, M., (1990). Hemispheric control of spatial attention, *Brain and Cognition*, *12*, 240-266.
146. **Reuter-Lorenz, P.A.**, & Brunn, J.L., (1990). A prelexical basis of pure alexia: A case study, *Cognitive Neuropsychology*, *7*, 1-20.
147. **Reuter-Lorenz, P.A.**, Givis, R.P., & Moscovitch, M., (1983). Hemispheric differences in the perception of happy and sad faces: Evidence from right-handers and inverted and noninverted left-handers, *Neuropsychologia*, *21*, 687-692.
148. **Reuter-Lorenz, P.A.**, & Davidson, R.J., (1981). Differential hemispheric contributions to the perception of happy and sad faces, *Neuropsychologia*, *19*, 609-613.

#### **Manuscripts under review, in revision, in preparation.**

1. Pliner, E.M., Liu, C., Salminen, J.S., **Reuter-Lorenz, P.A.**, Swearingner, R.D., Hwang, H., Roy, A., Richer, N., Clark, D.J., Manini, T.M., Hass, C.J., Cruz-Almedia, Y., Seidler, R.D., Ferris, D.P. (under review). Compensation Related Utilization of Neural Circuits Hypothesis (CRUNCH) of Electrocortical Data during Walking on Uneven Terrain.
2. Sato, S.D., Tasci, S., Darbouze, R., Shah, V.A., Fettle, T., Roy, A., **Reuter-Lorenz, P.A.**, Clark, D.J., Ferris, D.P., Hass, C.J., Manini, T.M., Seidler, R.D., (under review). Diffusion along the perivascular space is associated with longitudinal change in walking speed in older adults.

3. Gurguryan, L., Kensinger, E.A., **Reuter-Lorenz, P.A.**, & Dimsdale-Zucker, H.R. (under review). Aging and false memories: Comparing effects of item-relatedness and list position.
4. Brummer, J, Freund, A.M., Reuter-Lorenz, P.A., Horn, S. (under review). Value-directed recognition memory in younger and older adults: A Process dissociation approach.
5. Tays, G., Fettrow, TD., McGregor, H., Hupfeld, K.E., De Dios, Y.E., **Reuter-Lorenz, P.A.**, Bloomberg, J.J., Mulavara, A.P., Wood, S.J., & Seidler, R.D. (under review). Sensory network segregation as a predictor of post spaceflight balance impairments and sensory re-weighting.
6. Sikora-Wachowicz, B., Lewandowska, K., Oginska, H., Domagalik, A., Beres, A., Faba, P., Ostrogorska, M., Olszewska, J., Hubalewska-Mazgaj, M., Marek, T., **Reuter-Lorenz, P.**, Fafrowicz, M. (in preparation). A time-of-day effect on the neural mechanisms underlying false recognition in a visual working memory task
7. McGregor, H.R., Hupfeld, K.E., Pasternak, O., Smith, S.M., Zwart, S.R., Beltran, N.E., De Dios, Y.E., Bloomberg, J.J., Wood, S.J., Mulavara, A.P., Riascos, R.F., **Reuter-Lorenz, P.A.**, & Seidler, R.D. (under review). Spaceflight-induced brain changes are not associated with astronaut age, sex, and SANS.
8. Moored, K.D., Iordan, A.D., Cooke, K.A., Katz, B., Buschkuehl, M., Jaeggi, S. M., Jonides, J., Peltier, S.J., Polk, T.A., & **Reuter-Lorenz, P.A.** (in revision). Predictors of verbal working memory plasticity in younger and older adults: Dissociating early and late performance gains during training.

#### **Publications--Book Chapters:**

1. Festini, S.B., Kegler, G., & **Reuter-Lorenz, P.A.** (2025). Hemispheric Brain Organization and its Prevailing Impact on the Neuropsychology of Aging. In Corballis, P., and Papagano, C. (Eds.) *Handbook of Clinical Neurology*, Elsevier.
2. Iordan, A., Xie, K., & **Reuter-Lorenz, P.A.** (2023). Short-term working memory: A neurocognitive perspective. In G. J. Boyle, A.K. Barbey, G. Northoff, F. Fregni, M. Jahanshahi, A. Pascual-Leone, & B.J. Sahakian (Eds.), *The SAGE handbook of cognitive and systems neuroscience*. Sage Publishing.
3. **Reuter-Lorenz, P.A.**, Festini, S.B., & Jantz, T.K., (2021) Executive functions and neurocognitive aging. K.W. Schaie and S.L. Willis (Eds). *Handbook of the Psychology of Aging, 9<sup>th</sup> Edition*.
4. **Reuter-Lorenz, P.A.** & Iordan, A.D. (2020). Remembering over the short and long term: Empirical continuities and theoretical implications. In Logie, R., Cowan, N., Camos, V. (Eds) *Working Memory: State of the Science*. Oxford University Press.
5. Zahodne, L.B. & **Reuter-Lorenz, P.A.** (2019). Compensation and brain aging: a review and analysis of evidence. In Samanez-Larkin, G. (ed.), *The Aging Brain*. Washington, DC: APA Books.
6. **Reuter-Lorenz, P.A.** & Lustig, C.L. (2016). Working memory and executive function: Linking Cognitive and Cerebral Aging. In R. Cabeza, L. Nyberg and D. Park, *The Cognitive Neuroscience of Aging Vol 2*. Oxford University Press, pages 235-258. DOI: 10.1093/acprof:oso/9780199372935.003.0010
7. **Reuter-Lorenz, P.A.**, Festini, S.B., & Jantz, T. (2015). Neurocognitive aging and executive function. K. W. Schaie and S. Willis (Editors). *The Handbook of the Psychology of Aging, 8<sup>th</sup> Edition*. Academic Press, pages 245-257.
8. Lustig, C.L. & **Reuter-Lorenz, P.A.** (2013). Training working memory: An imaging perspective. In T. Alloway (editor), *Working Memory: The Connected Intelligence*. Psychology Press, pages 287-298.
9. **Reuter-Lorenz, P.A.** & Grady, C.L. (2012). Frontal lobes and aging. In D. Stuss and R. Knight (editors), *Frontal Lobes*, Oxford University Press.
10. **Reuter-Lorenz, P. A.**, Persson, J. & Flegal, K.E. (2010). Cognitive neuroscience of aging. In *Handbook of Life Span Development*. C. Berg, K. Fingerma, T. Antonucci & J. Smith (Editors) Springer.
11. Persson, J., & **Reuter-Lorenz, P.A.**, (2008). The aging mind and brain. Nelson, C.A. & Luciana, M. *Handbook of Developmental Cognitive Neuroscience, 2<sup>nd</sup> Edition*. Cambridge, MA: MIT Press.
12. Atkins, A. and **Reuter-Lorenz, P.A.** (2008). Learning and memory for emotional events. In M. Guadagnoli, (Editor). *Human Learning: Biology, Brain, Neuroscience, Advances in Psychology Volume, 139, Elsevier*.
13. **Reuter-Lorenz, P. A.** & Jonides, J. (2007). The executive is central to working memory: Insights from age, performance and task variations. In Conway, R.A., Jarrold, C., Kane, M. J., Miyake, A., Towse, J., *Variations in Working Memory*, Oxford University Press, 250-270.

14. Baltes, P.B., Rosler, F., & **Reuter-Lorenz, P.A.** (2006). Biocultural co-constructivism as a metascript. In Baltes, BP., Reuter-Lorenz, PA. Roesler, F. (Editors) *Lifespan Development and the Brain: The Perspective of Biocultural Co-Constructivism*. Cambridge University Press, pages 3-39.
15. **Reuter-Lorenz, P.A.** & Mikels, J. A. (2006). The Aging Brain: The implications of enduring plasticity for behavioral and cultural change. Baltes, P., Reuter-Lorenz, PA. Roesler, F. (Editors) *Lifespan Development and the Brain: The Perspective of Biocultural Co-Constructivism*. Cambridge University Press, pages 255-287.
16. **Reuter-Lorenz, P.A** and Sylvester, C.Y. (2005). The cognitive neuroscience of aging and working memory. In R. Cabeza, L. Nyberg and D. Park, *The Cognitive Neuroscience of Aging*. Oxford University Press, pages 186-217.
17. **Reuter-Lorenz, P.A.**, (2003). Parallel processing in the bisected brain: Implications for callosal function. In E. Zaidel, and M. Iacoboni, (Eds.) *The Parallel Brain: The Cognitive neuroscience of the Corpus Callosum*. (Pp. 341-354) MIT Press.
18. **Reuter-Lorenz, P.A.**, Marshuetz, C., Jonides, J., Smith, E.E., Hartley, A. & Koeppe, R. (2001). Neurocognitive aging of storage and executive processes. In Ulrich Meyer, Daniel Spieler, & Reinhold Kliegl (Eds.). *Ageing and Executive Control*. Psychology Press, East Essex UK. 257-278.
19. **Reuter-Lorenz, P.A** (2000). Cognitive neuropsychology of the aging brain. In D. Park and N. Schwarz (ed.) *Primer of Cognitive Aging*. Psychology Press, Philadelphia. 93-114.
20. Jonides, J., **Reuter-Lorenz, P.A.**, Smith, E.E., Awh, E., Barnes, L.L., Drain, H.M., Glass, J., Lauber, E., & Schumacher, E., (1996). "Verbal and spatial working memory," in D. Medin (Ed.), *Psychology of Learning and Motivation*, v. 34, pp. 43-83. Academic Press: San Diego.
21. Tramo, M.J., Baynes, K., Fendrich, R., Mangun, G.R., Phelps, E., **Reuter-Lorenz, P.A.**, & Gazzaniga, M.S., (1995). "Hemispheric specialization and interhemispheric integration: Recent insights from experiments with commissurotomy patients," in A. Reeves & D. Roberts (Eds.), *Epilepsy and the Corpus Callosum*, 2. Plenum Press: New York.
22. **Reuter-Lorenz, P.A.** & Gazzaniga, M.S., (1991). "Stroke: An opportunity for studying localization of function- A perspective of cognitive neuropsychology," in R. A. Borenstein and G.G. Brown (Eds.), *Neurobehavioral Aspects of Cerebral Vascular Disease*, pp. 246-270. Oxford University Press: New York.
23. Roy, E.A., **Reuter-Lorenz, P.A.**, Roy, L.G., Copland, S., & Moscovitch, M., (1987). "Unilateral attention deficits and hemispheric asymmetries in the control of attention," in M. Jeannerod (Ed.), *Neurophysiological and Neuropsychological Aspects of Spatial Neglect*. North Holland Co.: Amsterdam.

#### Encyclopedia Entries, Reviews and Commentaries:

1. Cabeza, R., Albert, A., Belleville, S., Craik, F.I.M., Duarte, A., Grady, C., Lindenberger, U., Nyberg, L., Park, D., **Reuter-Lorenz, P.A.**, Rugg, M.D., Steffener, J., and Rajah, M.N. (2019). Reply to 'Mechanisms underlying resilience in ageing.' *Nature Neuroscience Reviews*.
2. Festini, S.B., Zahodne, L.B., & **Reuter-Lorenz, P.A.** (2018). Theoretical perspectives on activation changes: HAROLD, PASA, CRUNCH – How do they STAC up? In Knight, R. (ed.), *Oxford Encyclopedia of Psychology and Aging*. Oxford, UK: Oxford University Press.
3. Festini, S & **Reuter-Lorenz, P.A.** (2015). Dysexecutive Amnesia. 2nd edition of the International Encyclopedia of Social & Behavioral Science. Elsevier.
4. Mikels, J.A. & **Reuter-Lorenz, P.A.** (2013). Emotion and working memory. Pashler, H. *Encyclopedia of the Mind*. Sage.
5. Mikels, J.A. & **Reuter-Lorenz, P.A.** (2010). Finding one's way: Mentoring notes between a mentor and a mentee. Division 20, Newsletter.
6. Flegal, K.E. & **Reuter-Lorenz, P.A.** (2010) Aging and brain fitness (Commentary on Voelcker-Rehage, Godde, & Staudinger). *European Journal of Neuroscience*, 2010 Jan; 31(1): 165-6. Epub 2009 Dec 23. PMID: 20092562 [PubMed - in process]
7. Reuter-Lorenz, P.A. (2001). Contributions to the *Dictionary of Biological Psychology*, P. Winn (Ed.) Routledge.
8. Jonides, J., & **Reuter-Lorenz, P.A.**, (1995.) Redefining Cognitive Psychology: A review of Images of Mind. *Behavioral and Brain Sciences*, v. 18, p. 363.
9. Reuter-Lorenz, P.A., (1988). Introspection from a new point of view: A review of The Disappearance of Introspection, by William Lyons. *Contemporary Psychology*, v. 33, pp. 433-434.
10. Reuter-Lorenz, P.A., (1987). A review of Experimental Techniques in Human Neuropsychology, H.J. Hannay (Ed.), *Brain*, v. 110, pp. 557-558.

**Invited Presentations and Colloquia:**

August 2024, Baltes Distinguished Research Award Lecture, American Psychological Association, Seattle WA  
 May, 2024 Chicago Aging Summit, Northwestern University, IL  
 March 2023, Psychology Department Invited Colloquium, University of Miami, FL  
 September 2022, Invited Speaker to honor Denise Park, UT Dallas, TX  
 March 2021, Keynote Speaker, Buffalo Chapter of the Society for Neuroscience.  
 March 2019, Distinguished Chair Lecture, University of Florida, Gainesville, FL  
 May 2017, Consensus of key terms in cognitive neuroscience of aging, Montreal, CA  
 June 2016, Kavli Summer Institute in Cognitive Neuroscience, Santa Barbara, CA  
 July 2015, Psychonomics Society Governing Board Symposium, Edinburgh, Scotland  
 June 2015, Morris Moscovitch Festschrift, University of Toronto  
 February 2015, Hutt Memorial Lecture, Department of Psychiatry, University of Michigan  
 January 2015, Dallas Aging Cognition Conference, University of Texas, Dallas  
 September 2014, Keynote, Opening of Center for Study of Mind and Brain, University of Granada  
 May 2014, Association for Psychological Science, San Francisco  
 November 2013, Women in Cognitive Science, Toronto, Ontario  
 May, 2013, Directors' Circle Keynote, Center for Vital Longevity, UT Dallas  
 April, 2013, Southern Illinois University, Carbondale, Neuroscience seminar series.  
 February, 2013, Columbia Presbyterian Medical Center, colloquium series.  
 December 2012, Horizons of Cognition Colloquia, Warsaw School of Social Sciences and Humanities  
 June 2012, Keynote address, International Colloquia on Cognitive Aging, Tours, France  
 May 2012, Max Planck Institute, Berlin, Germany  
 April 2012, Wayne State University, Sheldon Lachman Memorial lecture  
 November 2011, Center for Vital Longevity, UT Dallas, Texas  
 September 2011, Department of Psychology, University of Louisville, Kentucky  
 September 2011, FENS/IBRO Research School, Geneva, Switzerland  
 May 2011, Memory and Aging Symposium, Groningen, Netherlands  
 March 2011, Department of Psychology, DePaul University  
 March 2011, Department of Psychology, University of Chicago.  
 February 2011, Dallas Aging and Cognition Conference, University of Dallas, Texas.  
 October 2010, Keynote Address, German Neuropsychological Society  
 October 2010, Cognitive Aging Summit, Washington, D.C.  
 June 2010, Justine and Yves Sergent Prize, Montreal, CA.  
 April 2010, Symposium on Plasticity of Executive Control, Cognitive Neuroscience Society  
 March 2010, Frontal Lobes, 2010, Rotman Institute, Section Co-Organizer: Frontal lobes and aging.  
 February 2010, Dallas Aging and Cognition Conference, University of Dallas, Texas.  
 October 2009, Center for Vital Longevity, University of Texas, Dallas  
 May 2009, Cognitive Training and Aging, Association for Psychological Science, San Francisco  
 May 2009, Wales Institute of Cognitive Neuroscience, University of Bangor, Wales  
 April 2009, Alzheimer's disease Center, Northwestern University Feinberg School of Medicine  
 March 2009, Department of Psychology, Washington University, St. Louis  
 February, 2009, Center for Mind and Brain, UC Davis  
 September, 2008, Meeting of the Memory Disorders Research Society (Symposium Organizer)  
 July 2008, Center for Cognitive Science, University of Colorado, Boulder,  
 May 2008, Invited Speaker, Association for Psychological Science, Chicago  
 March 2008, Distinguished Lecturer, Jacobs Center for Lifelong Learning, Bremen  
 August 2007 American Psychological Association, Invited Address Division 20  
 March 2007, Central Virginia Chapter of the Society for Neuroscience, University of Richmond, VA  
 March 2007, Rotman Research Institute Conference on Memory and Aging, Toronto  
 November 2006, Symposium on Working Memory and Language, Rice University, Houston Texas  
 October 2006, Viure le Temps, Alzheimer's disease Association, Barcelona, Spain  
 August 2006, Department of Psychology, Dalhousie University, Halifax, Nova Scotia

- May 2006, Max Planck Institute for Human Development, Berlin, Germany
- September, 2005, Center for Visual Neuroscience, North Dakota State University
- May 2005, International Conference on the Future of Cognitive Aging Research, Penn State
- March 2005, Department of Psychology, Penn State, College Park
- February 2005, Department of Psychology, University of Colorado, Boulder
- April, 2004, Department of Psychology, Kyoto University
- April, 2004, Department of Psychology, Stanford University
- February, 2004, Department of Psychology, Southern Illinois University, Carbondale
- April, 2002: *New visions of the Aging Brain: Insights from working memory*. Symposium on Neuroscience, Cognition and Aging. San Francisco.
- October 2001: "Neurocognitive Aging of Working Memory". Meeting of the Memory Disorders Research Society, Boston.
- August 2001: "Two Hemispheres are better as we age". *Healthy Minds, APA symposium sponsored by NIA and the APA Presidential Task force on New Scientific Frontiers*
- March 2001: "Aging & Working Memory". *Killam Speaker, Montreal Neurological Institute*.
- March 2001: "Aging & Working Memory". *Cognitive Neuroscience of Aging Workshop, UM*
- December 2000: "Mechanisms of voluntary and reflexive gaze control". *Nikon Speaker, University of Montreal, Department of Ophthalmology, Montreal, Quebec*.
- October 2000: "Mechanisms of voluntary and reflexive gaze control". *Brazilian Psychological Society, Rio de Janeiro, Brazil*.
- August 2000: "Working Memory in the Aging Brain." *Special Lecture, Meeting of the American Psychological Association, Washington DC*.
- February 2000: "Neurocognitive Aging of Working Memory Storage and Executive Processes." *Meditel Lecturer, University of Aarhus, PET Center Denmark*.
- October 1999: "Neurocognitive Aging of Working Memory Storage and Executive Processes" *Invited paper, Aging and executive functions, Potsdam*.
- April 1999: Symposium organizer "Cognitive Neuroscience insights into the aging brain" *The Annual meeting of the Cognitive Neuroscience Society, Washington, DC*
- December 1998: "Cognitive Neuroscience insights into the aging brain". *SUNY College at Purchase, NY*.
- October 1998: "Aging and Working Memory: Insights from Neuroimaging". *North Dakota State University, Fargo, ND*.
- April 1998: "Age-Related Changes In The Neural Mechanisms of Spatial Compared to Verbal Working Memory." *Presented at the Cognitive Aging Conference, Atlanta, GA*.
- April 1998: "Neural Recruitment and the Aging Brain", *Workshop at the ESCI meeting, Krakow, Poland*.
- October 1997: "Neural mechanisms of cognitive aging: two brains are better than one, especially as you age". *University of Michigan Psychology Building Dedication Ceremony- Public Lecture*.
- August 1997: "Aging and Working Memory: A Neuroimaging approach". *Aarhus PET Center, Aarhus, Denmark*.
- May 1997: "Functional overlap of object-based attention and object working memory" *International Society for Behavioral Neuroscience*.
- December 1996: *Departmental Colloquium, Psychology Department, and University of Montreal*.
- October 1996: *Cognitive Science Speaker Series, Department of Psychology, Michigan State University*.
- September 1996: "The role of the human corpus callosum in sensory- motor integration." *NATO Advanced Studies Institute: Lucca, Italy*.
- June 1995: "Dissociation and integration in the bisected brain." *Symposium in honor of Roger Sperry: "Hemispheric Interactions." Annual meeting of the International Neuropsychological Symposium, Prague, Czech Republic*.
- March 1994: "Attention biases in the normal brain." *Meeting of the Cognitive Neuroscience Society*.
- November 1993: *University of Illinois, Department of Psychology. Cognition Neuroscience Colloquium*.
- July 1992: "Dissociation and integration in the bisected brain." *Veterans Affairs Hospital, Washington D.C*.
- July 1992: "The fate of neglected targets in the callosotomized brain." *Canadian Society for Brain, Behavior and Cognitive Science, Quebec City*.
- February 1992: "Modes of lexical access in the callosotomized brain." *International Neuropsychological Society, San Diego*.

- July 1991: "Mechanisms of attention and gaze control revealed by callosotomy." *International Conference on Epilepsy and the Corpus Callosum*.
- October 1989: "The control of spatial attention in the bisected brain." *Brown University*.
- April 1984: "Facial asymmetries and emotion communication." *Meeting of the Semiotic Society, Toronto*.

### Conference Presentations (partial list)

- Tiffany K. Jantz, Sara B. Festini, & Patricia Reuter-Lorenz. Age-Related Differences in the Effects of Directed Forgetting on Working and Long-Term Memory. Paper presented at the Annual Meeting of the Psychonomic Society, Nov 2015.
- Tiffany K. Jantz, & Reuter-Lorenz, P.A. (2016). Value influences immediate recall of sub- and supra-span memory loads. Poster presented at the Annual Meeting of the Psychonomics Society, Boston.
- Katherine A Cooke, Benjamin Katz, Kyle D Moored, Martin Buschkuehl, Susanne M Jaeggi, Scott J Peltier, Thad A. Polk, John Jonides, and Patricia Reuter-Lorenz. Practice Based Malleability of Verbal Working Memory Performance. Paper presented at the Annual Meeting of the Psychonomic Society, Nov 2015.
- P. Yuan, V. Koppelmans, K. Cassady, K. Cooke, Y. E. De Dios, V. Stepanyan, D. Szecsy, N. Gadd, S. J. Wood, P. A. Reuter-Lorenz, R. Riascos-Castaneda, I. Kofman, J. J. Bloomberg, A. P. Mulavara, and R. D. Seidler. Decreased brain deactivation for foot movement during 70-day 6° head-down bed rest (HDBR) - evidence from functional magnetic resonance imaging (fMRI). *Neural Control of Movement*, April, 2015.
- K. Cassady, V. Koppelmans, P. Yuan, K. Cooke, Y. De Dios, V. Stepanyan, D. Szecsy, N. Gadd, S. Wood, P. Reuter-Lorenz, R. Riascos Castenada, I. Kofman, J. Bloomberg, A. Mulavara, & R. Seidler. The effects of long duration bed rest as a spaceflight analogue on resting state sensorimotor network functional connectivity and neurocognitive performance. *Neural Control of Movement*, April, 2015.
- November, 2014, Festini, S.B, & Reuter-Lorenz, P.A., On the role of rehearsal in directed forgetting effects in working memory. *Annual meeting of the Psychonomics Society, Long Beach*.
- November, 2014, Olszewska, J.M., Reuter-Lorenz, P.A., & Munier, E., What you think you saw or heard depends on test delay: Modality effects on short- and long-term false memories *Annual meeting of the Psychonomics Society, Long Beach*.
- February, 2014, Long-term alterations in neurocognitive responses in women treated for breast cancer: A prospective fMRI analysis, ICCTF, Seattle Washington
- November, 2013, Festini & Reuter-Lorenz, Directed forgetting reduces proactive interference in working memory, *Annual meeting of the Psychonomics Society, Toronto*.
- June 2013 Scott Peltier, Marc Berman, Katie Askren, Bratislav Mistic, Mi Jung, Anthony McIntosh, Lynn Ossher, Min Zhang, Patricia Reuter-Lorenz, Bernadine Cimprich. Resting-state connectivity changes in women with breast cancer, *Human Brain Mapping*.
- April, 2013, McDonough, I., Rieck, J., Hebrank, Reuter-Lorenz, P.A. & Park, D.C. Individual differences in cognitive ability differentially affect neural modulation across the lifespan: a multivariate spatio-temporal pattern analysis 20th Annual Meeting of the *Cognitive Neuroscience Society*, San Francisco.
- December, 2012, Cimprich, B., Hayes, D.F., Askren, M.K., Jung, M., Berman, M., Ossher, L., Therrien, B., Reuter-Lorenz, P., Zhang, M., Peltier, S., Noll, D. (Podium). Neurocognitive impact in adjuvant chemotherapy for breast cancer linked to fatigue: A prospective functional MRI study. *San Antonio Breast Cancer Symposium*, San Antonio, TX.
- November, 2012, Festini, S. B. & Reuter-Lorenz, P. A. Short- and long-term consequences of directed forgetting. 53rd annual meeting of the *Psychonomics Society*. Minneapolis, MN.
- November, 2012, Askren, M.K., Jung, M., Berman, M., Ossher, L., Zhang, M., Peltier, S., Therrien, B., Reuter-Lorenz, P., Cimprich, B. A functional MRI analysis of the role of fatigue prior to and following adjuvant chemotherapy in women with breast cancer. Poster presented at the 42nd Annual Meeting of the *Society for Neuroscience*. New Orleans, LA.
- November, 2012, Festini, S. B., Preston, S. P., Reuter-Lorenz, P. A., & Seidler, R. D. Emotion is dissociable from error during motor learning. Poster presented at the 42nd Annual Meeting of the *Society for Neuroscience*. New Orleans, LA.
- September, 2012, Jung, M.S., Askren, M.K., Berman, M.G., Hayes, D.F., Zhang, M., Ossher, L., Peltier, S., Noll, D.C., Therrien, B., Reuter-Lorenz, P.A., Cimprich, B. (Podium): Altered neurocognitive responses in women

- treated with adjuvant chemotherapy for breast cancer: A functional MRI analysis of the impact of fatigue. *State of the Science Congress on Nursing Research*, Washington, D.C.
- March, 2012, Zucker, H.R., Reuter-Lorenz, P.A., & Kensinger, E.A. Aging and false memories: Comparing effects of item-relatedness and list position. Poster presented at *Cognitive Aging Conference*, Atlanta, Georgia.
- December, 2011, Cimprich, B., Hayes, D.F., Askren, K., Jung, M., Berman, M., Therrien, B., Reuter-Lorenz, P., Zhang, M., Peltier, S., Noll, D. (Poster/discussion) Altered neurocognitive responses prior to adjuvant therapy for breast cancer: A functional MRI analysis of the impact of worry and fatigue, *San Antonio Breast Cancer Symposium*, San Antonio, TX,.
- May, 2011, Festini, S. B., & Reuter-Lorenz, P. A. (2011). Forgetting and Suppressing: Differential Effects on False Working Memories. Poster presented at the 23<sup>rd</sup> Annual Meeting of the *Association for Psychological Science*, Washington, DC.
- April 2011, Askren, M., Berman, M., Jung, M., Therrien, B., Hayes, D.F., Peltier, S., Noll, D.C., Zhang, M., Reuter-Lorenz, P.A., Cimprich, B. (Poster) Alterations in performance and frontal brain activation prior to chemotherapy for breast cancer. *Cognitive Neuroscience Society*, San Francisco, CA.
- February, 2011, Cimprich, B., Jung, M.S., Clark, P.M., Askren, M.K., Berman, M., Therrien, B. (2011). Worry affects cognitive performance prior to adjuvant treatment for breast cancer. *11<sup>th</sup> National Conference on Cancer Nursing Research*, Los Angeles, CA.
- November, 2010, Berman, M., Askren, K., Jung, M.S., Clark, P.M., Therrien, B., Peltier, S., Noll, D.C., Zhang, M., Hayes, D.G., Reuter-Lorenz, P.A., Cimprich, B. Chemo hurts before it starts: How worry after breast cancer diagnoses alters neurocognitive functioning. *Annual Meeting of the Society for Neuroscience*. San Diego, CA.
- June, 2010, Demiralp, E., Flegal, K.E., Gonzalez, R., Hernandez, L., Reuter-Lorenz, P. A., & Jonides, J. *Human Brain Mapping, Barcelona*
- June 2010, Fling, B., Reuter-Lorenz, P.A., Welsh, R.C., Seidler, R.C., Age differences in callosal contributions to cognitive and motor performance. *Platform and poster presentation, Human Brain Mapping, Barcelona*.
- April 2010, Zucker, H. & Reuter-Lorenz, P.A. Distinguishing between memory systems: False memories depend on serial position. *Poster presented at the Cognitive Neuroscience Society annual meeting, Montreal*.
- November, 2009, Fling BW, Walsh CM, Bangert A, Reuter-Lorenz PA, Seidler RD (2009) Differential Callosal Contributions To Bimanual Coordination in Young and Older Adults? Poster presented at the Society for Neuroscience annual meeting, Chicago, IL.
- April 2009, Persson, J., Larsson, A. and Reuter-Lorenz, P.A. Neural mechanisms underlying resource depletion of executive control. *Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco*.
- April 2009, Atkins, A.L., Berman, M., Jonides, J. and Reuter-Lorenz, P.A. A common role for left inferior frontal gyrus (BA45) in proactive and semantic interference in a working memory task? *Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco*.
- November 2008, Atkins, A.L., Berman, M., Jonides, J. and Reuter-Lorenz, PA. Articulatory suppression increases proactive and semantic interference in a working memory task. *Meeting of the Psychonomic Society, Chicago*.
- November 2008, Bangert, A., Seidler, R. and Reuter-Lorenz, PA. Does a common scalar mechanism control timing across the range of milliseconds to seconds for both temporal reproduction and discrimination? *Meeting of the Psychonomic Society, Chicago*.
- April 2008. Flegal, K. E., Atkins, A. S. & Reuter-Lorenz, P.A. False memories: Short-term and long-term effects compared. *Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco*.
- November 2007. Bangert, A. S., Reuter-Lorenz, P. A. & Seidler, R. D. How many clocks?: Mechanisms of temporal reproduction and discrimination across milliseconds and seconds. Poster presented at the *Annual meeting of the Society for Neuroscience*, San Diego, CA.
- April 2007, Cappell, K., Gmeindl, L., Reuter-Lorenz, P.A. Age differences in DLPFC activation during verbal working memory maintenance depend on memory load. *Poster presented at the Cognitive Neuroscience Society annual meeting, New York*.
- March 2007. Bangert, A. S., Reuter-Lorenz, P. A. & Seidler, R. D. Does a common scalar mechanism control timing across the range of milliseconds to seconds for both temporal reproduction and discrimination? *Poster presented at the annual meeting of the Neural Control of Movement Society, Seville, Spain*.

- November 2007. Anguera, J.A., Reuter-Lorenz, P.A., Willingham, D.T., Noll, D.C., and Seidler, R.D. Contributions of spatial working memory to visuomotor adaptation in young and older adults. *Poster presented at the annual meeting of the Society for Neuroscience San Diego, CA.*
- June 2007. Anguera, J.A., Reuter-Lorenz, P.A., Willingham, D.T., Noll, D.C., and Seidler, R.D. (2007). Contributions of spatial working memory to visuomotor adaptation. *Human Brain Mapping, Chicago, IL.*
- October, 2006: Cappell, K., Gmeindl, L., Reuter-Lorenz, P.A. Age differences in DLPFC recruitment during verbal working memory maintenance depend on memory load. *Presented at the Annual meeting of the Society for Neuroscience, Atlanta.*
- October, 2006: J.A. Anguera, P.A. Reuter-Lorenz, J.K. Nelson, D.T. Willingham, D.C. Noll, and R.D. Seidler. Contributions of Spatial Working Memory to Visuomotor Adaptation. *Presented at the Annual meeting of the Society for Neuroscience, Atlanta.*
- October, 2006: Bangert, A.S., Reuter-Lorenz, P.A., Seidler, R.D. Mechanism of temporal reproduction and discrimination across sub and supra-second durations. *Presented at the Annual meeting of the Society for Neuroscience, Atlanta.*
- April, 2006 Persson, J., Nelson, J.K., Jonides, J. and Reuter-Lorenz, P.A. Behavioral and neuroanatomical evidence for a core executive function: The case of interference resolution. *Poster presented at the Cognitive Neuroscience Society annual meeting, San Francisco.*
- April, 2006: Atkins, A.S., Walsh, M.K., & Reuter-Lorenz, P.A., False Working Memory: rapid memory distortion and its neural correlates. *Cognitive Neuroscience Society, San Francisco.*
- January, 2006: "Brain activation in response to facial signals of dominance and submission: the role of implicit power motivation." *Michelle M. Wirth, Steven J. Stanton, Christian E. Waugh, Patricia A. Reuter-Lorenz, and Oliver C. Schultheiss. Society for Personality and Social Psychology.*
- November, 2005: "False" Working Memories: Memory Distortion in a Mere Four Seconds. *Atkins, A.L. & Reuter-Lorenz, P.A., Meeting of the Psychonomic Society, Toronto.*
- November, 2005: "Location-Based Versus Configurational Representations Of Visuospatial Information In Working Memory." *Gmeindl L., Nelson, J.K., & Reuter-Lorenz, P. Meeting of the Psychonomic Society, Toronto.*
- November, 2005, "Task-induced deactivations: Effects of age and selection demand", *Persson, J, Lustig, C, Reuter-Lorenz, PA, Society for Neuroscience, Washington, D.C.*
- October, 2005: "False" Working Memories: Memory Distortion in a Mere Four Seconds. *Atkins, A.L. & Reuter-Lorenz, P.A., Memory Disorders Research Society, Tucson.*
- February, 2005: "Assessing cognitive function in women with and without breast cancer using functional magnetic resonance imaging (fMRI)." *Cimprich, B., Therrien, B., Reuter-Lorenz, P.A., Normolie, D., Clark, P.M., Vincent, C., Hayes, D.F., Noll, D., Welsh, R., Nelson, J.K., Oncology Nursing Society, American Cancer Society, 8th National Conference on Cancer Nursing Research, Fort Lauderdale.*
- April 2002: Gmeindl L., Rontal A. & Reuter-Lorenz, P. (2002, April). Strategic modulation of the fixation-offset effect in pro- and anti-saccade tasks. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. Journal of Cognitive Neuroscience, E95 Suppl. S APR 2002.*
- November 2001: "Voluntary and reflexive components of gaze control: Insights from Hemispherectomy" *Presented at the Annual meeting of the Psychonomics Society, Orlando.*
- November 2001: " Disconnection deficits in Alzheimer's Disease? Behavioral measures of Callosal Function: A Disconnection Syndrome? " *J. Mikels & P.A. Reuter-Lorenz. presented at the Annual meeting of the Society for Neuroscience, San Diego.*
- April 2001: "Unilateral visual cueing and asymmetric line geometry share a common attentional origin in the modulation of pseudoneglect. " *M. McCourt, M. Garlinghouse & P. Reuter-Lorenz Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, NY.*
- November 2000: Strategic modulation of the fixation offset effect. *L. Gmeindl, A. Rontal & P.A. Reuter-Lorenz, presented at the Annual meeting of the Society for Neuroscience, New Orleans.*
- April 2000: "Neurocognitive aging of working memory storage and executive processes". *Reuter-Lorenz, P.A., Marshuetz, C., Jonides, J., Smith, E.E., Hartley, A. & Koeppel, Presented at the Cognitive Aging Conference, Atlanta, GA*
- October 1999: The Effect of hemispherectomy on pro- and anti- saccades to auditory targets in the gap paradigm. *P.A. Reuter-Lorenz, T. Herter, M. Ptito, A. Ptito, and D. Guitton. Presented at the Annual meeting of the Society for Neuroscience, Miami.*

- October 1999: Blindsight is not evident in the saccadic behavior of hemispherectomized individuals. T. Herter, P.A. Reuter-Lorenz, M. Ptito, A. Ptito, & D. Guitton. *Society for Neuroscience, Miami*.
- November 1998: "Neural Recruitment And Cognitive Aging: Two Hemispheres Are Better Than One, Especially As You Age". *Presented at the Annual meeting of the Psychonomics Society, Dallas, Tx*.
- November 1998: Right hemisphere dominance for spatial working memory in split-brain patients. *Presented at the annual meeting of the Society for Neuroscience, Los Angeles*.
- November 1998: Age related changes in the neural mechanisms of spatial and verbal working memory. *Presented at the annual meeting of the Society for Neuroscience, Los Angeles*.
- April 1998: "Neural Recruitment And Cognitive Aging: Two Hemispheres Are Better Than One, Especially As You Age". *Presented at the Cognitive Aging Conference, Atlanta, GA*.
- April 1998: "Age-Related Changes In The Neural Mechanisms of Spatial Compared to Verbal Working Memory." *Presented at the Cognitive Aging Conference, Atlanta, GA*.
- April 1998: "Category-specific interference in a picture naming task." *Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco*.
- April 1998: "Perceptual asymmetries due to trunk rotation" *Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco*.
- April 1998: "PET evidence for age-related declines in inhibitory processes" *Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco*.
- April 1998: "Do age-related impairments in specific working memory systems result in greater reliance on the central executive?" *Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco*.
- October 1997: "The role of parietal cortex in verbal working memory as revealed by PET." *Poster presented at the annual meeting of the Society for Neuroscience, New Orleans*.
- October 1997: "Dorsolateral prefrontal cortex and verbal working memory". *Poster presented at the annual meeting of the Society for Neuroscience, New Orleans*.
- November 1996: "The effects of age on the neural substrate for verbal working memory." *Paper presented at the meeting of Society for Neuroscience, Washington D.C*.
- November 1996: "Vertical bias in the normal brain: Cueing effects and reference frames." *Paper presented at the annual meeting of the Psychonomic Society, Chicago*.
- March 1996: "Shared mechanisms of object-based attention and object working memory." with Lisa Barnes. *Paper presented at the meeting of the Cognitive Neuroscience Society, San Francisco*.
- March 1996: "Object-centered attentional biases in the normal brain." *Paper presented at the meeting of the Cognitive Neuroscience Society, San Francisco*.
- November 1995: "Object-based facilitation and inhibition from visual orienting in the human split brain." with S. Tipper and R.D. Rafal. *Paper presented at the meeting of the Cognitive Neuroscience Society, San Francisco*.
- November 1995: "Object-centered biases and neglect: The effects of stimulus configuration versus reference frames." with Maxwell Drain. *Cognitive Neuroscience Society, San Francisco*.
- November 1995: "Do auditory cues produce "inhibition of return"?" *Paper presented at the annual meeting of the Psychonomic Society, Los Angeles*.
- May 1994: "Implementation of a model of saccade facilitation in the gap paradigm," with G. Nozawa and H.C. Hughes. *Association for Research in Vision & Ophthalmology, Sarasota*.
- November 1994: "Microsaccades are not responsible for the gap effect," with C.M. Wessinger, A. Kingstone, J. Falkenroth. *Cognitive Neuroscience Society, San Francisco*.
- November 1994: "What is inhibited by "Inhibition of return"?" *Meeting of the Psychonomics Society, St. Louis*.
- May 1993: "Effects of Warning signals and fixation point offsets on the latencies of pro- vs. anti- saccades: Implications for an interpretation of the gap effect." *for Research in Vision & Ophthalmology, Sarasota*.
- November 1993: "The disconnection syndrome: Basic findings reaffirmed," with S. Seymour. *Paper presented at the meeting of Society for Neuroscience Abstracts, Washington D.C*.
- November 1993: "Mechanisms of spatial attention: Altitudinal "neglect" in the normal brain." with Maxwell Drain. *Psychonomics Society, Washington D.C*.
- November 1992: "Global precedence in the frequency domain," with H.C. Hughes, G. Nozawa, and F. Kitterlee. *Psychonomics Society, St. Louis*.

- May 1992: "Intersensory facilitation and express saccades." *Association for Research in Vision & Ophthalmology, Sarasota.*
- February 1992: "Modes of lexical access in the callosotomized brain." *Paper presented at the meeting of International Neuropsychological Society, San Diego.*
- November 1991: "The fate of neglected targets in the callosotomized brain: A chronometric analysis." *Paper presented at the meeting of the Psychonomics Society, San Francisco.*
- November 1990: "Bidirectional control of saccadic eye movements in the bisected brain." *Paper presented at the Society for Neuroscience meeting, St. Louis.*
- November 1990: Bidirectional control of pursuit eye movements in the bisected brain," with R. Fendrich. *Paper presented at the Society for Neuroscience meeting. St. Louis.*
- November 1990: "Oculomotor readiness and covert orienting: The effects of central versus peripheral precues." *Paper presented at the meeting of the Psychonomics Society, New Orleans.*
- November 1990: Multimodal convergence and the control of saccadic eye movements," with G. Nozawa. *Paper presented at the meeting of the Psychonomics Society, New Orleans.*
- March 1990: "Functional dissociations in hemispatial neglect: Brainprints and quantitative lesion localization," with M. J. Tramo and M. A. Guglielmo. *Academy of Neurology, New York.*
- November 1989: "Mechanisms of express saccades: Attentional and response components." *Paper presented at the meeting of the Psychonomic Society, Atlanta*
- March 1989: "Pure alexia: Cognitive and anatomic correlates," with M.J. Tramo. *Academy of Neurology, New Orleans*
- October 1988: "Letter and word perception in a letter-by-letter reader." *Academy of Aphasia, Montreal.*
- February 1987: "Input and output components of neglect from right hemisphere damage." *Paper presented at the meeting of the International Neuropsychological Society, Washington D.C.*
- February 1985: "Lateral bias in a visual line bisection task: Similarities between the performance of neglect patients and normal subjects." *Meeting of the International Neuropsychological Society, San Diego.*
- June 1982: "Asymmetry in the perception of affect as a function of handedness and handwriting posture." *Paper presented at the meeting of the Canadian Psychological Association, Montreal.*
- February 1980: "Differential hemispheric contributions to the perception of happy and sad faces." *Paper presented at the meeting of the International Neuropsychological Society, San Francisco.*
- August 1979: "Sex differences in spatial performances related to cerebral lateralization," with R.J. Freedman, R.J. Davidson and N. Taylor. *American Psychological Association, New York.*