

Curriculum Vitae

Dr. Yana Fandakova

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Contact Information

Center for Mind and Brain
University of California, Davis
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Education and Degrees

- 2012 Dr. rer. nat. (Ph.D.), *Summa cum Laude*
Humboldt University, Berlin, Germany
Thesis: *Age and Individual Differences in True and False Memory Across the Lifespan*
- 2008 Diploma in Psychology
Humboldt University, Berlin, Germany
Thesis: *Associative and Strategic Components of Episodic Memory Across the Lifespan: An Application of Latent Growth Models*
- 2003 – 2008 Study of Psychology, Humboldt University, Berlin, Germany
Major: Cognitive Psychology and Neuroscience
- 2002 – 2003 Study of German, Sociology and Politics, Otto-von-Guericke University, Magdeburg, Germany

Professional Experience

- 2014 – present Postdoctoral fellow
Center for Mind and Brain, University of California, Davis and Helen Wills Neuroscience Institute, University of California, Berkeley
Advisors: Prof. Simona Ghetti and Prof. Silvia A. Bunge
- 2009 – 2013 Research fellow
Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany
Advisors: Prof. Ulman Lindenberger and Dr. Yee Lee Shing

Awards and Fellowships

- 2015 5th Latin American School for Education, Cognitive and Neural Sciences Fellow, San Pedro de Atacama, Chile, James S. McDonnell Foundation
- 2014 Postdoctoral research grant, German Research Foundation (DFG) to collaborate with Prof. Silvia A. Bunge and Prof. Simona Ghetti
Project: *"Relating changes in fronto-parietal networks to changes in control over memory: A longitudinal, cognitive neuroscience approach to memory development in childhood"*
- 2013 Otto Hahn Medal for outstanding scientific achievements, Max Planck Society
- 2012 Conference Travel Grant, Meeting of the Society for Neuroscience in New Orleans, USA, German Academic Exchange Service (DAAD)
- 2012 NIMH Summer Institute in Cognitive Neuroscience Fellow, University of California, Santa Barbara, USA
- 2011 Conference Travel Grant, 2011 Biennial Meeting of the Society for Research in Child Development (SRCD) in Montreal, Canada, German Academic Exchange Service (DAAD)
- 2009 – 2011 Predoctoral fellow, International Max Planck Research School "The Life Course: Evolutionary and Ontogenetic Dynamics (LIFE)"

Teaching Experience

- August 2015 Guest Lecturer *Introduction to Human Learning and Memory*, Department of Psychology, University of California, Berkeley, Dr. Michael S. Vendetti
- October 2014 Guest Lecturer *The Developing Brain*, Department of Psychology, University of California, Berkeley, Prof. Silvia Bunge
- October 2013 Guest Lecturer *Human Research on Learning and Memory*, International Graduate Program Medical Neurosciences, Charité – Universitätsmedizin, Berlin
- Winter 2012 Lecturer *Cognitive Neuroscience of Episodic Memory Across the Lifespan*, Department of Psychology, Free University Berlin
- October 2012 Guest Lecturer *Human Research on Learning and Memory*, International Graduate Program Medical Neurosciences, Charité – Universitätsmedizin, Berlin

Publications: Journal Articles

Fandakova, Y., Lindenberger, U., & Shing, Y. L. (2015). Maintenance of youth-like processing protects against false memory in later adulthood. *Neurobiology of Aging*, *36*, 933–941.

Fandakova, Y., Lindenberger, U., & Shing, Y. L. (2014). Deficits in process-specific prefrontal and hippocampal activations contribute to adult age differences in episodic memory interference. *Cerebral Cortex*, *24*, 1832–1844.

Fandakova, Y.*, Sander, M. C.*, Werkle-Bergner, M., & Shing, Y. L. (2014). Age differences in short-term memory binding are related to working memory performance across the lifespan. *Psychology and Aging*, *29*, 140–149. *joint first authorship.

Fandakova, Y., Shing, Y. L., & Lindenberger, U. (2013). Differences in binding and monitoring mechanisms contribute to lifespan age differences in false memory. *Developmental Psychology*, *49*, 1822–1832.

Fandakova, Y., Shing, Y. L., & Lindenberger, U. (2013). High-confidence memory errors in old age: The roles of monitoring and binding processes. *Memory*, *21*, 732–750.

Fandakova, Y., Shing, Y. L., & Lindenberger, U. (2012). Heterogeneity in memory training improvement among older adults: A latent class analysis. *Memory*, *20*, 554–567.

Shing, Y. L., Rodrigue, K. M., Kennedy, K. M., **Fandakova, Y.**, Bodammer, N., Werkle-Bergner, M., Lindenberger, U., & Raz, N. (2011). Hippocampal subfield volumes: Age, vascular risk, and correlation with associative memory. *Frontiers in Aging Neuroscience*, *3*, 2.

Burgmans, S., Gronenschild, E. H. B. M., **Fandakova, Y.**, Shing, Y. L., van Boxtel, M. P. J., Vuurman, E. F. P. M., Uylings, H. B. M., Jolles, J., & Raz, N. (2011). Age differences in speed of processing are partially mediated by differences in axonal integrity. *NeuroImage*, *55*(3), 1287–1297.

Publications: Book Chapters

Fandakova, Y., & Ghetti, S. (in revision). Learning and memory. In B. Hopkins, E. Geangu, & S. Linkenauger (Eds.), *The Cambridge Encyclopedia of Child Development*. Cambridge, UK: Cambridge University Press.

Fandakova, Y., Lindenberger, U., & Shing, Y. L. (2015). Episodic memory across the lifespan: General trajectories and modifiers. In D. R. Addis, M. D. Barense, & A. Duarte (Eds.) *The Wiley handbook on the cognitive neuroscience of memory* (pp. 309–325). Hoboken, NJ: Wiley-Blackwell Press.

Manuscripts Under Review or in Preparation

Fandakova, Y., Bunge, S. A., Wendelken, C., Desautels, P., Hunter, L., Lee J. K., & Ghetti, S. (under review). *Knowing when you don't remember: Neural substrates of uncertainty promote memory improvement over time.*

Fandakova, Y., & Bunge, S. A. (in preparation). *What do educators need to know about episodic memory?*

Fandakova, Y., Johnson, E., & Ghetti, S. (in preparation). *The neural underpinnings of memory monitoring and control: Evidence from a metacognitive illusion.*

Fandakova, Y., Sander, M. C., Lindenberger, U., Werkle-Bergner, M., & Shing, Y. L. (in preparation). *Effects of representation quality on false memory in old age.*

Fandakova, Y., Sander, M. C., Lindenberger, U., Werkle-Bergner, M., & Shing, Y. L. (in preparation). *Age differences in the neural correlates of retrieval monitoring.*

Conference Presentations (selected)

Fandakova, Y., Johnson, E., & Ghetti, S. (2015). The neural underpinnings of memory monitoring and control: Evidence from a metacognitive illusion (poster). *Meeting of the Cognitive Development Society, Columbus, USA.*

Fandakova, Y., Wendelken, C., Lee J. K., Bunge, S. A., Ghetti, S. (2015). Individual differences in the neural basis of metacognitive monitoring predict change in memory accuracy over time (poster). *23rd Meeting of the Cognitive Neuroscience Society, San Francisco, USA.*

Fandakova, Y., Wendelken, C., Lee J. K., Bunge, S. A., Ghetti, S. (2015). Neurodevelopment of source memory during middle childhood: Cross-sectional and longitudinal evidence (talk). *2015 Biennial Meeting of the Society for Research in Child Development (SRCD), Philadelphia, USA.*

Fandakova, Y., Sander M. C., Cabeza, R., Lindenberger, U., Werkle-Bergner, M., Shing, Y. L. (2014). Memory representation strength modulates the neural networks supporting associative recognition and novelty detection (talk). *44th Annual Society for Neuroscience Meeting, Washington DC, USA.*

Fandakova, Y., Wendelken, C., Lee J. K., Bunge, S. A., Ghetti, S. (2014). The Importance of Knowing What You Don't Know: Exploring the Neural Basis of Individual Differences in Monitoring of Episodic Memory (talk). *2nd Annual Flux Congress, Los Angeles, USA.*

Fandakova, Y., Wendelken, C., Lee J. K., Bunge, S. A., Ghetti, S. (2014). Exploring the neural basis of individual differences in monitoring of episodic memory (talk). *11th Annual Bay Area Memory Meeting, Palo Alto, USA.*

Fandakova, Y., Lindenberger, U., Shing, Y. L. (2013). Heterogeneity in episodic memory control processes among older adults: Structural and functional findings (talk). *Tagung experimentell arbeitender Psychologen (TeaP), Vienna, Austria.*

Fandakova, Y., Lindenberger, U., Shing, Y. L. (2013). Individual Differences in Functional Activation are Related to Episodic Memory Errors in Old Age (poster). *2013 Dallas Aging and Cognition Conference, Dallas, USA.*

Fandakova, Y., Lindenberger, U., Shing, Y.L. (2012). False memory in old age: The importance of maintaining functional similarity to younger adults (poster). *42th Annual Society for Neuroscience Meeting, New Orleans, USA.*

Fandakova, Y., Lindenberger, U., Shing, Y. L. (2012). Age differences in memory monitoring and associative novelty detection contribute to older adults' increased susceptibility to false memory (talk). *Symposium organized and chaired by Yana Fandakova & Myriam C. Sander. 48th German Congress of Psychology (DGPS), Bielefeld, Germany.*

Fandakova, Y., Shing, Y. L., Lindenberger, U. (2011). Adult age differences in the ability to withstand interference in episodic memory: Neuronal correlates and interaction with binding mechanisms (poster). *18th Annual Cognitive Neuroscience Society Meeting, San Francisco, USA.*

Fandakova, Y., Shing, Y. L., Lindenberger, U. (2011). Adult age differences in monitoring highly familiar events (talk). *2011 Biennial Meeting of the Society for Research in Child Development (SRCD), Montreal, Canada.*

Fandakova, Y., Shing, Y. L., Lindenberger, U. (2010). Age-related differences in the ability to monitor currently relevant memories (poster). *22nd Cognitive Aging Conference, Atlanta, Georgia, USA.*

Ad-hoc Reviewer

Acta Psychologica, Aging, Neuropsychology and Cognition, Cerebral Cortex, Cognitive Development, Developmental Psychology, Frontiers in Psychology, Journal of Neuroscience, Neuron, Psychology and Aging, Society for Research in Child Development Annual Meeting

Professional Membership

Cognitive Neuroscience Society
Society for Neuroscience
Society for Research in Child Development