
CURRICULUM VITAE

SHU-CHEN LI, Ph.D.
Prof. of Lifespan Developmental Neuroscience

1. Personal Information

Date/Place of Birth: May 29, 1967/ Taiwan

Employment: Chair of Developmental Psychology (W3; Sept. 2012 –)
 Department of Psychology
 Dresden University of Technology
 (Technische Universität Dresden)

Senior Research Scientist (W2; 2006 – Aug. 2012)
 Max Planck Institute for Human Development
 Center for Lifespan Psychology

Honorary Professor of Psychology (July 2008–Feb 2014)
 Free University of Berlin

Business Address:

Department of Psychology
 Zellescher Weg 17 Rm. 233

Business Phone:

+49-0351-46334162 (voice)
 +49-0351-46337294 (fax)

E-mail: Shu-Chen.Li@tu-dresden.de / shuchen@mpib-berlin.mpg.de

URL: <http://tu-dresden.de/mn/psy/epsy>

Private Address:

Am Rohrgarten 63
 D14163 Berlin, Germany

Private Phone: +49-30-89626310

+49-0172-1733877 (cell)

Current H-index: 40 (based on Web of Knowledge); 53 (based on Google Scholar)

2. Academic degrees and offered positions

W3 Professor of Lifespan Developmental Neuroscience (full professorship; TU Dresden, Dresden, Germany; Sept. 2012 –)

W3 Professor of Developmental Psychology (full professorship; University of Konstanz; July, 2008; position declined due to personal reasons)

Honorary Professor (Honorarprofessor) of Psychology, Free University of Berlin (since May, 2008 – Feb., 2014)

Adjunct Professor Brain Research Center, College of Electrical & Computer Engineering, National Chiao Tung University, Taiwan (2006-2008)

Habilitation in Psychology

Free University of Berlin; Habilitation lecture: *Neuroeconomics: A New Approach to the Science of Decision Making* (Feb., 2006)

Ph.D. Cognitive Psychology, University of Oklahoma, OK, USA (Dec., 1994)

Dissertation Title: *An Alternative Technique for Model Comparison: Parameter Sensitivity and Interdependence Analysis in Models of Cognition.*

Dissertation Advisor: Stephan Lewandowsky (currently Professor of Psychology at the University of Western Australia)

M.Sc. Cognitive Psychology, University of Oklahoma, OK, USA (Dec., 1991)

Thesis Title: *Constraints for Models of Serial Order Memory: Differentiating between Serial Position Curves in Forward and Backward Recall.*

B.Sc. Psychology, Oklahoma City University, OK, USA (May, 1990).

Associate School Counseling, National Taichung Teachers' College, Taichung, Taiwan, R. O. C. (June, 1988).

3. Summary of Research Interests

- Behavioral and Neurocognitive Development across the Lifespan
- Neuromodulation of Cognition
- Neurocomputational and Formal Modeling of Lifespan Cognition
- Neuroeconomics and Aging
- Stress and Lifespan Development
- Biocultural Co-construction of Development
- Prenatal environmental influences on early development

4. Research and Teaching Positions

Chair of Developmental Psychology (W3)

- Department of Psychology, Technische Universität Dresden (TU Dresden) Dresden, Germany (Sept., 2012 –)

Senior Research Scientist (W2)

- Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany (May, 2006–Aug. 2012)

Deputy Director (Behavioral Science Section)

- International Max Planck Research Network on Aging (Sept. 2006–July, 2007)

Research Scientist (equivalent of assistant research professor)

- Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany (Sept., 1998–Apr., 2006)

Faculty Associate

- Brain Research Center, School of Computer Science, Chiao-Tung University, Taiwan (Dec., 2006–2008)
- Berlin Graduate School of Mind and Brain (Oct., 2006–2012)
- PD (Privat Dozent) Free University of Berlin
- Honorary Professor of Psychology, Free University of Berlin (since May, 2008)
- International Max Planck Research School (in cooperation with the University of Michigan) on “*The Life Course: Evolutionary and Ontogenetic Dynamics*” (Oct., 2002–present)
- The Graduate Program (Graduiertenkolleg) on “The Neuropsychiatry and Psychology of Aging” (in cooperation with Free University Berlin) (Oct., 2000–present)

Postdoctoral Research Fellow

- McGill University and Université Laval (Canada) from Sept., 1994 to Aug., 1995
- Max Planck Institute for Human Development (Germany) from Sept., 1995 to Aug., 1998.

Research Assistant

- Research Assistant for the “*Automation of Air Traffic Control Project*” of the USA Federal Aviation Administration (Aug.–Dec., 1990).
- Research Assistant for the “*Cluster Detection in Mortality Maps Project*” of the USA Department of Health and Human Service (June–Aug., 1992).

Courses Taught

- **Introductory Psychology** (Instructor: Summer 1991 & Summer 1993 at University of Oklahoma, Norman, OK, USA)
- **Experimental Design** (Lab Instructor: Spring, 1992 to Spring, 1994 at University of Oklahoma, Norman, OK, USA)
- **Introductory Statistics** (University Lecturer: Summer Semester 1995 at McGill University, Montreal, Canada)
- Workshop on **Neural Network Modeling for Applications in Psychology** (Invited Lecture: Dec. 5 to 7, 1997 at National Taiwan University, Taipei, Taiwan)
- Graduate seminar on **Cognitive Aging** (University Lecturer: Fall Semester 2000 at Free University of Berlin, Germany).
- **Experimental Psychology** (University Lecturer: Summer Semester 2003; Free University of Berlin, Germany)
- Senior/Graduate seminar on **Gerontology** (University Lecturer: Winter Semester 2003, Free University of Berlin)
- Senior/Graduate seminar on **Computational Models in Developmental Science** (University Lecturer: Summer Semester 2004, Free University of Berlin)
- Senior/Graduate seminar on **Assessing Cognitive Development across the Lifespan** (University Lecturer: Winter Semester 2004, HU Berlin)

- **2005 Studienstiftung Summer Seminar on Computational Models of Psychology** (together with Prof. Ulman Lindenberger and Dr. Timo von Oertzen)
- Undergraduate Seminar on **Brain and Cognitive Development** (University Lecturer: Winter Semester 2006, Free University of Berlin)
- Undergraduate Seminar on **Experimental Design for Research on Cognitive Conflict Monitoring** (University Lecturer: Summer Semester 2007, Free University of Berlin)

Supervised Ph.D Fellows (current positions of supervised fellows)**Florian Schmiedek (Prof. of Psychology at Heidelberg University)**

(Ph.D. co-advisor with P. Baltes, Oct., 2000–March, 2003)

Oliver Huxhold (Research Scientist, German Center for Aging Issues, Berlin)

(M.S. co-advisor with P. Baltes, Oct., 2002–Feb., 2007)

Yvonne Brehmer (Research Scientist, Aging Research Center, Stockholm, Sweden)

(Ph.D. co-advisor with U. Lindenberger, Feb., 2004–Dec. 2006)

Yee Lee Shing (Lecturer, University of Stirling, Stirling, UK)

(Ph.D. co-advisor with U. Lindenberger, Oct., 2004–Dec. 2007)

Markus Werkle-Bergner (Research Scientist, MPI for Human Development)

(Ph.D. co-advisor with U. Lindenberger, Oct., 2004–2008)

Irene Nagel

(Ph.D. co-advisor with U. Lindenberger, Oct., 2005–2009)

Dorothea Hämmerer (Postdoc, UCL London, UK)

(Ph.D. co-advisor with U. Lindenberger, Jan., 2006– Dec.2009)

Agnieszka Burzynska (Assistant Prof., Colorado State Univ., USA)

(Ph.D. co-advisor with U. Lindenberger & H. Heekeren, May, 2007–Dec. 2010)

Nikos Green (Postdoc, Free University Berlin)

(Ph.D. Mind & Brain fellow; co-advisor with H. Heekeren, Apr., 2007–Apr. 2013)

Peter Mohr (Junior Prof., Free University Berlin)

(Ph.D. co-advisor together with H. Heekeren, May, 2007–Dec. 2010)

Susanne Passow (Postdoc, TU Dresden, Dresden)

(Ph.D. co-advisor with U. Lindenberger, Oct., 2007–Apr. 2012)

Viola Störmer (Postdoc, Harvard University, USA)

(Ph.D. co-advisor with U. Lindenberger, Oct., 2008–Dec. 2011)

Goran Papenberg (Postdoc, Aging Research Center, Stockholm, Sweden)

(Ph.D. co-advisor with U. Lindenberger, Oct. 2009–Apr. 2013)

Nicolas Schuck (Postdoc, Princeton University, USA)

(Ph.D. co-advisor with P. A. Frensch, Apr. 2010–Aug. 2013)

Julia Rodriguez Buritica

(Ph.D. co-advisor with H. Heekeren, B. Eppinger Apr. 2011–)

Liesa Ilg

(Ph.D. supervisor, June 2015 –)

Danica Dajkic

(Ph.D. supervisor, March 2016 –)

Hsiang-Yu Chen

(Ph.D. supervisor, Oct 2016 –)

5. Professional Services

Services to Professional Journals

Associate Editor

Developmental Psychology, APA Journal (2010-2016)

Guest Editor

(2008-2010)

Neuroscience and Biobehavioral Reviews

2010 Special Issue on "Dopaminergic modulation of lifespan cognition" (Vol. 34)

(2005-2006)

Neuroscience and Biobehavioral Reviews

2006 Special Issue on "Methodological and Conceptual Advances in the Study of Brain-Behavior Dynamics: A Multivariate Lifespan Perspective".

(2001-2002)

Neuroscience and Biobehavioral Reviews

2002 Special Issue on "Aging of the Brain, Sensorimotor, and Cognitive Processes"

Board of Consulting Editors

Psychology and Aging (2001-2003; 2006-2013)

Neuroscience and Biobehavioral Reviews (2003-present)

NeuroImage (July 2012-2016)

Grant Review Panels

DFG, ERC, Academy of Finland

Ad hoc Reviewer (1998-present):

Connection Science, Developmental Psychology, Gerontology, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning, Memory, and Cognition, Journal of Gerontology: Psychological Science, NeuroImage, Neuropsychologia, Proceedings of National Academy of Sciences USA, Psychological Bulletin, Psychological Research, Psychological Science, Trends in Neurosciences

6. Awards and Grants

Awards

2002 Fellow of Cognitive Neuroscience Summer Institute
 2001 Fellow of National Science Foundation Summer Workshop on fMRI Informatics
 1998-1999 Fellow of the German-American Academic Council's Summer Institute for Young Scholars on "The Evolution of Intelligence".
 April 18, 1995 University of Oklahoma 1994-1995 Dissertation Prize in the area of Life Sciences, Social Sciences, Business and Other Professions (\$ 1,000.00).
 1989-1990 Oklahoma Methodist Scholarship via Oklahoma City University (\$ 12,000.00)

Research Grants

2017-2020 DFG Li879/18-1 "Modulating frontostriatal regulations of attentional control and selective perception: enhancing dopamine signaling and frontal cortical excitability in attentional deficit hyperactivity disorder and aging (ca. 250 T Euro)
 2016-2020 SFB 940/2 B3 „Aging and dopamine modulation of complementary control processes (532.500,00 Euro)
 2015-2020 BMBF TRAINSTIM "Verbesserung flexibler kognitiver Kontrolle und Entscheidungsfunktionen bei älteren Erwachsenen durch Training und nicht-invasive Hirnstimulation" (583.509,00 Euro)
 2015-2018 BMBF EMOTISK-16SV7273 "Altersunterschiede und die Mechanismen zur Steigerung der sozio-emotionalen Entscheidungskompetenz." (329.608,00 Euro)
 2015-2018 DFG Li879/15-1 "Langzeiteffekte einer pränatalen Therapie mit synthetischen Glukokortikoiden die psychosoziale Stressreaktivität und volitionale Kontrolle in Kindheit und Jugendalter" (201.534,00 Euro)
 2013-2015 BMBF 01GQ1313 "Serotonin- und Dopaminmodulation zielgerichteten Lernens zur Maximierung langfristiger Zugewinne in der Erwachsenenentwicklung" (224.353,00 Euro)
 2009-2013 BMBF Bernstein Focus Grant on Neural Foundations of Learning (together with Prof. Ulman Lindenberger, Prof. Hauke Heekeren). The total fund is about Euro 100,000.00 per year.
 2009-2012 DFG FOR 778 Conflict as Signal of Cognitive Processing (together with Prof. Ulman Lindenberger, Prof. Hauke Heekeren). The total fund is about Euro 75,000.00 per year.
 2006-2009 DFG FOR 778 Conflict as Signal of Cognitive Processing (together with Prof. Ulman Lindenberger, Dr. Michaela Riediger). The total fund is about Euro 40,000.00 per year.
 2004-2006 Max Planck Institute Internal Research Fund for the project on "Intra-Person Dynamics" (in collaboration with Prof. U. Lindenberger). The total fund is about Euro 200,000.00 per year.
 2003-2004 Max Planck Institute Internal Research Fund for the project on "Developmental Dynamics" (in collaboration with Prof. P. B. Baltes and Prof. Jacqui Smith). The total fund is about Euro 140,000.00 per year.
 2000-2002 Max Planck Institute Internal Research Fund for the project on "Cognition and Age" (in collaboration with Prof. P. B. Baltes). The total fund is about Euro 100,000.00 per year.
 1994-1995 Postdoctoral Research Grant from Faculté des Sciences Sociales de l'Université Laval (\$17,000.00)

7. Publications (Complete Listing)

Refereed Journal Articles

In press

Eppinger, B., Heekeren, H. R., & Li, S.-C. (in press). Age differences in the neural mechanisms of intertemporal choice under subjective decision conflict. *Cerebral Cortex*.

Schuck, N. W., Petok, J. R., Meeter, M., Schjerve, B.-M. M., Schröder, J., Bertram, L., Gluck, M. A. & Li, S.-C. (in press). Aging and a genetic KIBRA polymorphism interactively affect feedback-and observation-based probabilistic classification learning. *Neurobiology of Aging*.

2017

- Reiter, A., Eppinger, B., Kanske, P. & Li, S.-C. (2017). The aging of the social mind: differential effects on components of social understanding. *Scientific Reports*, 7, 11046, 1-8.
- Stankevich, Y., Thurm, F., Evens, R., Fauser, M., Riedel, O., Storch, A., Li, S.-C. & Lueken, U. (2017). Dysphoria, dopaminergic medication and spatial memory in Parkinson's disease. *Neuropsychiatry*, 7(3), 281-289.
- FitzGerald, T.H.B., Hämmerer, D., Friston, K. J., Li, S.-C. & Dolan, R. J. (2017). Sequential inference as a mode of cognition and its correlations in fronto-parietal and hippocampal brain regions. *PLoS Computational Biology*.
- Eppinger, B., Walter, M. & Li, S.-C. (2017). Electrophysiological correlates reflect the integration 8. model-based and model-free decision information. *Cognitive, Affective, and Behavioral Neuroscience*. [Epub ahead DOI 10.3758/s13415-016-0487-3]
- Passow, S., Thurm, F. & Li, S.-C. (2017). Activating developmental reserve capacity via cognitive training or non-invasive brain stimulation: potentials for promoting fronto-parietal and hippocampal-atrial network functions in old age. *Frontiers in Aging Neuroscience*, 9, Article 33.

2016

- Buritica, J. M. R., Eppinger, B., Schuck, N. W., Heekeren, H. R. & Li, S.-C. (2016). Electrophysiological correlates of observational learning in children. *Developmental Science*, 19, 699-709.
- Thurm, F., Schuck, N. W., Fauser, M., Doeller, C. F., Stankevich, Y., Evens, R., Riedel, O., Storch, A., Lueken, U. & Li, S.-C. (2016). Dopamine modulation of spatial navigation memory in Parkinson's disease. *Neurobiology of Aging*, 38, 93-103.
- Nassar, M. R., Bruckner, R., Gold, J. I., Li, S.-C., Heekeren, H. R. & Eppinger, N. (2017). Knowing what you don't know: age-related deficits in representing uncertainty. *Nature Communications*, 7, 11609, 1-13.

2015

- Schuck, N. W., Doeller, C. F., Polk, T. A., Lindenberger, U. & Li, S.-C. (2015). Human aging alters the neurocomputation and representation of space. *NeuroImage*, 117, 141-150.
- Garrett, D. D., Nagel, I. E., Preuschhof, C., Burzynska, A. Z., Marchner, J., Wiegert, S., Jungehülsing, G., Nyberg, L., Villringer, A., Li, S.-C., Heekeren, H. R., Bäckman, L. & Lindenberger, U. (2015). Amphetamine modulates brain signal variability and working memory in younger and older adults. *Proceedings of the National Academy of Sciences of the USA*, 112, 7593-7598.
- Eppinger, B., Heekeren, H. R. & Li, S.-C. (2015). Aging-related prefrontal impairments implicate deficient prediction of future reward in older adults. *Neurobiology of Aging*, 36, 2380-2390.

2014

- Ripke, S., Hübner, T., Menningen, E., Müller, K. U., Li, S.-C. & Smolka, M. N. (2014). Common correlates of intertemporal choices and intelligence in adolescents. *Journal of Cognitive Neuroscience*, 27, 387-399.
- Hämmerer, D., Müller, V., & Li, S.-C. (2014). Performance monitoring across the lifespan: still maturing conflict regulation in children and declining task-set monitoring in older adults. *Neuroscience & Biobehavioral Reviews*, 46, 105-123.
- Liu, T., Li, S.-C., Papenberg, Schröder, J., Roehr, J. T., Niefeld, W., Lindenberger, U. & Bertram, L. (2014). No association between CTNNB1 and episodic memory performance. *Translational Psychiatry*.
- Li, S.-C. & Rieckmann, A. (2014). Neuromodulation and aging: implications of aging neuronal gain control on cognition. *Current Opinion in Neurobiology*, 29, 148-158.

Papenberg, G., Bäckman, L., Nagel, I. E., Wilfried, N., Schröder, J., Bertram, L., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2014). COMT polymorphism and memory dedifferentiation in old age. *Psychology and Aging*, 29, 374-383.

Störmer, V., Eppinger, B., Li, S.-C. (2014). Reward speeds up and increases consistency of selective visual attention: a lifespan comparison. *Cognitive, Affective, and Behavioral Neuroscience*. Epub ahead of print. DOI 10.3758/s13415-014-0273-z)

Papenberg, G., Li, S.-C., Nagel, I. E., Niefeld, W., Schjerve, B.-M., Schröder, J., Bertram, L., Heekeren, H. R., Lindenberger, U., & Bäckman, L. (2014). Dopamine and glutamate receptor genes interactively influence episodic memory in old age. *Neurobiology of Aging*, 35, 1213.e3-1213.e8.

Passow, S., Westerhausen, R., Hugdahl, K., Wartenburger, I., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2014). Electrophysiological correlates of adult age differences in attentional control of auditory processing. *Cerebral Cortex*, 24, 249-260.

2013

- Schuck, N. W., Doeller, C. F., Bisenack, J., Schjerve, B. M., Frensch, P. A., Bertram, L., & Li, S.-C. (2013). Aging and KIBRA/WWC1 genotype affect spatial memory processes in a virtual navigation task. *Hippocampus*, 23, 919-930.
- Eppinger, B., Walter, M., Heekeren, H. R. & Li, S.-C. (2013). Of goals and habits: age-related and individual differences in goal-directed decision making. *Frontiers in Neuroscience*, 7, Article 253, 1-14.
- Burzynska, A. Z., Garrett, D. D., Preuschhof, C., Nagel, I. E., Li, S.-C., Bäckman, L., Heekeren, H. R. & Lindenberger, U. (2013). A scaffold for efficiency in the human brain. *Journal of Neuroscience*, 33, 17150-17159.
- Erdmann, J. et al. (2013). Dysfunctional nitric oxide signaling increases risk of myocardial infarction. *Nature*, 504, 432-436.
- Papenberg, G., Hämmerer, D., Müller, V., Lindenberger, U., & Li, S.-C. (2013). Lower theta inter-trial phase coherence during performance monitoring is related to reaction time variability: a lifespan study. *NeuroImage*, 83, 912-920.
- Li, S.-C. (2013). Neuromodulation and developmental contextual influences on neural and cognitive plasticity across the lifespan. *Neuroscience & Biobehavioral Reviews*, 37, 2201-2208.
- Schuck, N. W., Frensch, P. A., Schjerve, B.-M., Schröder, J., & Li, S.-C. (2013). Effects of aging and dopamine genotypes on the emergence of explicit memory during sequence learning. *Neuropsychologia*, 51, 2757-2769.
- Passow, S., Müller, M., Westerhausen, R., Hugdahl, K., Wartenburger, I., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2013). Development of attentional control of verbal auditory attention from middle to late childhood: comparisons to healthy aging. *Developmental Psychology*, 49, 1982-1993.
- Li, S.-C., Passow, S., Niefeld, W., Schröder, J., Bertram, L., Heekeren, H. & Lindenberger, U. (2013). Dopamine modulates attentional control of auditory perception: DARPP-32 (PPP1R1B) genotype effects on behavior and cortical evoked potentials. *Neuropsychologia*, 51, 1649-1661.
- Hämmerer, V., Giedo, B., Müller, V., Thiele, H., Nuenberg, P., Heekeren, H. R., Li, S.-C. (2013). Effects of PPP1R1B (DARPP-32) polymorphism on feedback-related brain potentials across the lifespan. *Frontiers in Psychology*, 4, Article 89, 1-8.
- Störmer, V., Li, S.-C., Heekeren, H. R. & Lindenberger, U. (2013). Normative shifts of cortical mechanisms of encoding contribute to adult age differences in visual-spatial working memory. *NeuroImage*, 73, 167-175.
- Störmer, V., Winther, G. N., Li, S.-C., & Andersen, S. K. (2013). Sustained multifocal attentional enhancement of stimulus processing in early visual areas predicts tracking performance. *Journal of Neuroscience*, 33, 5346-5351.
- Papenberg, G., Bäckman, L., Nagel, I. E., Niefeld, W. N., Schröder, J., Bertram, L., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2013). Dopaminergic gene polymorphisms affect long-term forgetting in old age: further support for the magnification hypothesis. *Journal of Cognitive Neuroscience*, 25, 571-579.
- Störmer, V., Li, S.-C., Heekeren, H. R., & Lindenberger, U. (2013). Normal aging delays and compromises early multifocal visual attention during object tracking. *Journal of Cognitive Neuroscience*, 25, 188-202.

- Li, S.-C. (2013). Lifespan development of neuromodulation of adaptive control and motivation as an ontogenetic mechanism for developmental niche construction. *Developmental Science*, *16*, 317-319.
- Hämmerer, D., Li, S.-C., Volker, M., Müller, V., & Lindenberger, U. (2013). A lifespan comparison of the reliability, test-retest stability and signal-to-noise ratio of event-related potentials assessed during performance monitoring. *Psychophysiology*.
- Li, S.-C., Papenberg, G., Nagel, I. E., Preuschhof, C., Schröder, J., Nietfeld, W., Bertram, L., Heekeren, H. R., Ulman, L., & Bäckman, L. (2013). Aging magnifies the effects of dopamine transporter and receptor genes on backward serial memory. *Neurobiology of Aging*, *34*, Article No. 358.e1

2012

- Burzynska, Nagel, I. E., Preschhof, C., Sebastian, G., Bäckman, L., Li, S.-C., Lindenberger, U., & Heekeren, H. R. (2012). Cortical thickness is linked to executive functioning in adulthood and aging. *Human Brain Mapping*, *33*, 1607-1620.
- Lövdén, M., Brehmer, V., Li, S.-C., & Lindenberger, U. (2012). Training-induced compensation versus magnification of individual differences in memory performance. *Frontiers in Human Neuroscience*, *6*, Article Number: 141.
- Li, S.-C. (2012). Neuromodulation of behavioral and cognitive development across the life span. *Developmental Psychology*, *48*, 810-814.
- Lill, C. M., Schjeide, B.-M. M., Akkad, D. A., Blaschke, P., Winkelmann, A., Gerdes, L.-A., Hoffjan, S., Luessi, F., Fuczik, E., Dörner, T., Li, S.-C., Lindenberger, U., Chan, A., Hartung, H.-P., Aktas, O., Lohse, P., Kümpfel, T., Kubisch, C., Epplen, J. T., Zettl, U. K., Bertram, L., & Zipp, F. (2012). Independent replication of STAT3 association with multiple sclerosis risk in a large German case-control sample. *Neurogenetics*, *13*, 83-86. doi:10.1016/j.neurobiolaging.2011.06.021
- Mohr, P. N. C., Li, S.-C., & Heekeren, H. R. (2012). Corrigendum to "Neuroeconomics and aging: Neuromodulation of economic decision making in old age" [Neuroscience & Biobehavioral Reviews, *34* (5) (2010), 678-688. doi:10.1016/j.neubiorev.2009.05.010]. *Neuroscience & Biobehavioral Reviews*, *36*, 735.
- Passow, S., Westerhausen, R., Wartenburger, I., Hugdahl, K., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2012). Human aging compromises attentional control of auditory perception. *Psychology and Aging*, *27*, 99-105.
- Störmer, V., Passow, S., Biesenack, J., & Li, S.-C. (2012). Dopaminergic and cholinergic modulations of visual spatial attention and working memory: Insights from molecular genetic research and implications for adult cognitive development. *Developmental Psychology*, *48*, 875-889.

2011

- Burzynska, A. Z., Nagel, I. E., Preuschhof, C., Li, S.-C., Lindenberger, U., Bäckman, L., & Heekeren, H. R. (2011). Microstructure of fronto-parietal connections predicts cortical responsivity and working memory performance. *Cerebral Cortex*, *21*, 2261-2271.
- Huxhold, O., Li, S.-C., Schmiedek, F., Smith, J., & Lindenberger, U. (2011). Age differences in intraindividual processing fluctuations of postural control across trials and across days. *Psychology and Aging*, *26*, 731-737.
- Eppinger, B., Hämmerer, D., & Li, S.-C. (2011). Neuromodulation of reward-based learning and decision-making in human aging. *Annals of the New York Academy of Sciences*, *1235*, 1-17.
- Nagel, I. E., Preuschhof, C., Li, S.-C., Nyberg, L., Bäckman, L., Lindenberger, U., & Heekeren, H. R. (2011). Load modulation of BOLD response and connectivity predicts working-memory performance in younger and older adults. *Journal of Cognitive Neuroscience*, *23*, 2030-2045.
- Papenberg, G., Bäckman, L., Chicherio, C., Nagel, I. E., Heekeren, H. R., Lindenberger, U., & Li, S.-C. (2011). Higher intraindividual variability is associated with more forgetting and dedifferentiated memory functions in old age. *Neuropsychologia*, *49*, 1879-1888.
- Kleinspehn-Ammerlahn, A., Riediger, M., Schmiedek, F., von Oertzen, T., Li, S.-C., & Lindenberger, U. (2011). Dyadic drumming across the lifespan reveals a zone of proximal development in children. *Developmental Psychology*, *47*, 632-644.
- Störmer, V., Li, S.-C., Heekeren, H. R., & Lindenberger, U. (2011). Feature-based interference from unattended visual field during attentional tracking in younger and older adults. *Journal of Vision*, *11*, 1-12.

- Hämmerer, D., Li, S.-C., Müller, V., & Lindenberger, U. (2011). Lifespan differences in electrophysiological correlates of monitoring gains and losses during probabilistic reinforcement learning. *Journal of Cognitive Neuroscience*, *23*, 579-592.

2010

- Hämmerer, D., Li, S.-C., Müller, V., & Lindenberger, U. (2010). An electrophysiological study of response conflict processing across the lifespan: Assessing the roles of conflict monitoring, cue utilization, response anticipation, and response suppression. *Neuropsychologia*, *48*, 3305-3316.
- Shing, Y. L., Werkle-Bergner, M., Brehmer, Y., Müller, V., Li, S.-C., & Lindenberger, U. (2010). Episodic memory across the lifespan: The contributions of associative and strategic components. *Neuroscience and Biobehavioral Reviews*, *34*, 1080-1091.
- Li, S.-C., Lindenberger, U., & Bäckman, L. (2010). Dopaminergic modulation of cognition across the life span. *Neuroscience & Biobehavioral Reviews*, *34*, 625-638
- Li, S.-C., Chicherio, C., Nyberg, L., von Oertzen, T., Nagel, I. E., Papenberg, G., Sander, T., Heekeren, H. R., Lindenberger, U., & Bäckman, L. (2010). Ebbinghaus revisited: Influences of the BDNF val66met polymorphism on backward serial recall are modulated by human aging. *Journal of Cognitive Neuroscience*, *22*, 2164-2173.
- Bäckman, L., Lindenberger, U., Li, S.-C., & Nyberg, L. (2010). Linking cognitive aging to alterations in dopamine neurotransmitter functioning: Recent data and future avenues. *Neuroscience & Biobehavioral Reviews*, *34*, 670-677.
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