
CURRICULUM VITAE

SHU-CHEN LI, Ph.D.

Prof. of Lifespan Developmental Neuroscience

1. Personal Information

Date of Birth: May 29, 1967
Nationality: German

Employment: Chair of Lifespan Developmental Neuroscience (W3, since Sept. 2012)
(tenured) Faculty of Psychology
 Technische Universität Dresden (TU Dresden)

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

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URL: <http://tu-dresden.de/mn/psy/epsy>
ORCID: <https://orcid.org/0000-0001-8409-5390>

Current H-index: 59 (based on Web of Science); 71 (based on Google Scholar)
<https://scholar.google.com/citations?user=pDTvwr0AAAAJ&hl=en>

2. Academic degrees

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
- Brain plasticity and lifespan development
- Neuromodulation of cognition and perception
- Neurocomputational and formal modeling of lifespan development

- Neuroeconomics and aging
- Age-inclusive digital technologies and human-machine Interactions
- Stress and lifespan development
- Neurodevelopmental disorder and aging-related neurodegeneration
- Prenatal environmental influences on early development
- Development of social mind across the lifespan
- Biocultural co-construction of development

4. Positions

Co-Speaker

- Excellence Research Cluster (DFG funded): Centre for Tactile Internet with Human-in-the-Loop (May 2019 – current)

Chair of Lifespan Developmental Psychology (W3)

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

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

- Faculty member Max Planck International Research School Cognitive NeuroImaging (IMPRS-CoIN) (since 2022 – current)
- Honorary Professor of Psychology, Free University of Berlin (2008–2014)
- Brain Research Center, School of Computer Science, Chiao-Tung University, Taiwan (Dec., 2006–2008)
- Berlin Graduate School of Mind and Brain (Oct. 2006–2012)
- International Max Planck Research School (in cooperation with the University of Michigan) on “*The Life Course: Evolutionary and Ontogenetic Dynamics*” (Oct. 2002–2012)
- The Graduate Program (Graduiertenkolleg) on “The Neuropsychiatry and Psychology of Aging” (in cooperation with Free University Berlin) (Oct. 2000–2006)

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).

5. Supervised Ph.D Fellows (current academic positions of supervised fellows)

Florian Schmiedek (Prof. of Psychology, Leibniz Institute for Research and Information in Education, Germany)

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

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

(Ph.D. co-advisor with P. Baltes, Oct., 2002–Feb., 2007)

Yvonne Brehmer (Prof. of Developmental Psychology, Tilburg University, Netherland)

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

Yee Lee Shing (Prof. of Developmental Psychology, University of Frankfurt, Germany)

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

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

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

Irene Nagel

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

Dorothea Hämmerer (Prof. of Developmental Psychology, Innsbruck University, Austria)

(Ph.D. co-adviser 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

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

Peter Mohr (Prof. of Behavioral Economics, Free University Berlin)

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

Susanne Passow (Science Coordination Consultant, Germany University Alliance of High Performance Computing, Berlin, Germany)

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

Viola Störmer (Assistant Prof., Dartmouth College, USA)

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

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

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

Nicolas Schuck (Prof. of Learning and Change Mechanisms, University of Hamburg, Hamburg, Germany)

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

Julia Rodriguez Buritica (Researcher, University of Greifswald, Greifswald)

(Ph.D. co-advisor with H. Heekeren, B. Eppinger Apr. 2011–2019)

Liesa Ilg

(Ph.D. supervisor, June 2015 – Nov 2019)

Hsiang-Yu, Chen (Postdoc, Brandeis University, Boston, USA)

(Ph.D. supervisor, Sept 2016 – Dec 2021)

Lena Pollerhoff

(Ph.D. co-supervisor, April 2020 – May 2024, expected)

Xuerui Peng

(Ph.D. supervisor, Nov. 2020 – 2025, expected)

Kaan Karan

(Ph.D. supervisor, June. 2021 –)

Brais Gonzalez Sousa

(Ph.D. supervisor, Dec. 2021 –)

Darek O’Leary

(Ph.D. supervisor, Feb. 2022 –)

6. 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 Starting Grant (panel member, and panel chair), ERC consolidator and advanced grants (reviewer), Academy of Finland (review panel member), The Helmholtz Association (review panel member for young investigator awards), Deutsche Studienpreis Köbler Stiftung (member of selection committee)

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

7. Research Grants

- 2023-2027 DFG Li 879/24-1 "Enhancing value-based learning by focalized tDCS (transcranial direct current simulation (ca. **570 T Euro**, PI part)
- 2022-2025 DFG Li879/23-1 "Longitudinal development of perception-action integration in GTS: In search of mechanisms underlying symptom remission (ca. **222 T Euro**, co-PI part)
- 2020-2024 DFG SFB 940/3 B3 "Aging and neuromodulation of forward planning under uncertainty (ca. **366 T Euro**, co-PI part)
- 2020-2023 DFG Li897/22-1 "Delineating cognitive and affective neural correlates of prosocial decision making across the lifespan (ca. **167 T Euro**, co-PI part)
- 2019-2025 DFG EXEC 2050/1 "Cluster of Excellence – Tactile internet with Human-in-the-Loop (ca. **36 Mio. Euro**, co-speaker)
- 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**, co-PI part)
- 2016-2020 SFB 940/2 B3 „Aging and dopamine modulation of complementary control processes (**532.500,00 Euro**, co-PI part)
- 2015-2020 BMBF TRAINSTIM "Verbesserung flexibler kognitiver Kontrolle und Entscheidungsfunktionen bei älteren Erwachsenen durch Training und nicht-invasive Hirnstimulation" (**583.509,00 Euro**, PI)
- 2015-2018 BMBF EMOTISK-16SV7273 "Altersunterschiede und die Mechanismen zur Steigerung der sozio-emotionalen Entscheidungskompetenz." (**329.608,00 Euro**, PI)
- 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**, co-PI part)
- 2013-2015 BMBF 01GQ1313 "Serotonin- und Dopaminmodulation zielgerichteten Lernens zur Maximierung langfristiger Zugewinne in der Erwachsenenentwicklung" (**224.353,00 Euro**, PI)
- 2009-2013 BMBF Bernstein Focus Grant on Neural Foundations of Learning (together with Prof. Ulman Lindenberger, Prof. Hauke Heekeren). The total fund is about **100 T Euro** 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 **75T Euro** 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)

8. Publications (only already published materials are listed)

Journal articles

2024

Schulz, J., Dubsloff, Seeling, P., Li, S.-C., Speidel, S., & Fitzek, F. H. P. (2024). Negative latency in the tactile internet as enabler for global metaverse. *IEEE Network*. doi: 10.1109/MNET.2024.3375522.

Kang, K. Y. L., Antonenko, D., Glöckner, F., Flöel, A. & Li, S.-C. (2024). Neural correlates of home-based intervention effects on value-based sequential decision-making in healthy older adults. *Aging Brain*, 5, 100109.

2023

Muschter, E., Schulz, J., Tömösközi, M., Herbst, L., Küssel, L., Sefunç, M., Holtzhausen, S., Speidel, S., Fitzek, F. H. O. & Li, S.-C. (in press). Coming in Handy: CeTI-Age — A comprehensive Database of kinematic Hand Movements across the Lifespan. *Scientific Data*, 10, 826. <https://doi.org/10.1038/s41597-023-02738-3>

Gonner, L., Baeuchl, C., Glöckner, F., Riedel, P., Michael, M. N., & Li, S.-C. (2023). Levodopa suppresses grid-like activity and impairs spatial learning in novel environments in healthy young adults. *Cerebral Cortex*. bhad361, <https://doi.org/10.1093/cercor/bhad361>

Peng, X.-R., Bundil, I., Schulreich, S., & Li, S.-C. (2023). Neural correlates of valence-dependent belief and value updating during uncertainty reduction: An fNIRS study. *NeuroImage*, 279, 120327.

Li, S.-C. & Fitzek, F. H. P. (2023). Digitally embodied lifespan neurocognitive development and Tactile Internet: Transdisciplinary challenges and opportunities. *Frontiers Human Neuroscience*, 17, 1-9, 1-16. doi:0.3389/fnhum.2023.1116501

Baeuchl, C., Glöckner, F., Koch, C., Petzold, J., Schuck, N. W., Smolka, M. N., & Li, S.-C. (2023). Dopamine differentially modulates medial temporal lobe activity and behavior during spatial navigation in young and older adults. *NeuroImage*, 273, 120099, 1-16.

Steffen, Johannes, Markovic, D., Glöckner, F., Neukam, P. T., Kiebel, S. J., Li, S.-C., & Smolka, M. N. (2023). Shorter planning depth and higher response noise during sequential decision-making in old age. *Scientific Reports*, 13: 6792.

Ruel, A., Bolenz, F., Li, S.-C., Fischer, A., & Eppinger, B. (2023). Neural evidence for age-related deficits in the representation of state space. *Cerebral Cortex*, 33, 1768-1781.

2022

Müller, S., Moser, D., Frach, L., Wimberger, P., Nitzsche, K., Li, S. C., ... & Alexander, N. (2022). No long-term effects of antenatal synthetic glucocorticoid exposure on epigenetic regulation of stress-related genes. *Translational Psychiatry*, 12(1), 62.

Noll, A., Hofbauer, M., Muschter, E., Li, S. C., & Steinbach, E. (2022, March). Automated Quality Assessment for Compressed Vibrotactile Signals Using Multi-Method Assessment Fusion. In *2022 IEEE Haptics Symposium (HAPTICS)* (pp. 1-6). IEEE.

Senk, S., Ulbricht, M., Tsokalo, I., Rischke, J., Li, S. C., Speidel, S., ... & Fitzek, F. H. (2022). Healing hands: The tactile internet in future tele-healthcare. *Sensors*, 22(4), 1404.

Pollerhoff, L., Stietz, J., Depow, G. J., Inzlicht, M., Kanske, P., Li, S. C., & Reiter, A. M. (2022). Investigating adult age differences in real-life empathy, prosociality, and well-being using experience sampling. *Scientific Reports*, 12(1), 3450.

Kang, K. Rosenkranz, R., Karan, K., Altinsoy, E., & Li, S.-C. (2022). Congruency-based contextual plausibility modulates cortical activity during vibrotactile perception in virtual multisensory environments. *Communications Biology*, 5(1), 1360. <https://doi.org/10.1038/s42003-022-04318-4>

Koch, C., Baeuchl, C., Glöckner, F., Riedel, P., Petzold, J., Smolka, M., Li, S.-C., & Schuck, N. W. (in press). L-DOPA enhances neural direction signals in younger and older adults. *NeuroImage*. 119670.

Splithoff, L., Li, S.-C., & Dix, A. (2022). Incentive motivation improves numerosity discrimination in children and adolescents. *Scientific Reports*, 12:10038, 1-12.

Chen, H. Y., Lombardi, G., Li, S. C., & Hare, T. A. (2022). Older adults process the probability of winning sooner but weigh it less during lottery decisions. *Scientific Reports*, 12(1), 1-12.

Antonenko, D., Thams, F., Grittner, U., Uhrich, J., Thurm, T., Li, S.-C., Flöel, A. (2022). Randomized trial of cognitive training and brain stimulation in nondemented older adults. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, 8(1), e12262.

2021

Beste, C., Mückschel, M., Rauch, Jessica, Bluschke, A., Takacs, A., Dilcher, R., Toth-Faber, E., Bäumer, T., Roessner, V., Li, S.-C., & Münchau, A. (2021). Distinct brain-oscillatory neuroanatomical architecture of perception-action integration in adolescents with Tourette syndrome. *Biological Psychiatry: Global Open Science*, 1(2), 123-134.

Dilcher, R., Beste, C., Takacs, A., Bluschke, A., Tóth-Fáber, E., Kleimaker, M., Münchau, A., & Li, S.-C. (2021). Perception-action integration in young age - A cross-sectional EEG study. *Developmental Cognitive Neuroscience*, 50, 100977, 1-14.

- Kang, K., Alexander, N., Wessel, J.R., Wimberger, P., Nitzsche, K., Kirschbaum, C., Li, S.-C. (2021). Neurocognitive development of novelty and error monitoring in children and adolescents. *Scientific Reports*, *11*(1), 1-14.
- Hatzipanayioti, A., Bodenstedt, S., von Bechtolsheim, F., Funke, I., Oehme F., Distler, M., Weitz, J., Speidel, S., & Li, S.-C. (2021). Association between perceptual learning of depth and performance gain in laparoscopic skill acquisition. *Frontiers Human Neuroscience*, *15*: Article No. 675700.
- Muschter, E., Noll, A., Zhao, J., Hassen, R., Strese, M., Gülecyüz, B., Li, S.-C., & Steinbach, E. (2021). Perceptual quality assessment of compressed vibrotactile signals through comparative judgment. *IEEE Transactions on Haptics*, *14*(2), 291-296.
- Glöckner, F., Schuck, N. W., & Li, S.-C. (2021). Differential prioritization of intramaze cue and boundary information during spatial navigation across the human lifespan. *Scientific Reports*, *11*:15257, 1-16.
- Reiter, A., Diaconescu, A. O., Eppinger, B., & Li, S.-C. (2021). Human aging alters social inference about others' changing intentions. *Neurobiology of Aging*, *103*, 98-108.
- Dilcher, R., Jamous, R., Takacs, A., Tóth-Fáber, E., Münchau, A., Li, S.-C., & Beste, C. (2021). Neurophysiology of embedded response plans: age effects in action execution but not in feature integration from pre-adolescence to adulthood. *Journal of Neurophysiology*, *J Neurophysiol.* 2021 Mar 10. doi: 10.1152/jn.00681.2020. Online ahead of print.
- Chen, H.-Y., Dix, A., Goh, J. O. S., Smolka, M., Thurm, F., & Li, S.-C. (2021). Effects and mechanisms of information saliency in enhancing value-based decision-making in younger and older adults. *Neurobiology of Aging*, *99*, 86-98.

2020

- Baeuchl, C., Kroemer, N., Pooseh, S., Petzold, J., Bitzer, B., Thurm, F., Li, S.-C., & Smolka, M. (in press). Reward modulates the association between sensory noise and brain activity during perceptual decision making. *Neuropsychologia*, *149*, 107675.
- Thurm, F., Li, S.-C., & Hämmerer, D. (2020). Maturation- and aging-related differences in electrophysiological correlates of error detection and error awareness. *Neuropsychologia*, *143*, 1-10.
- Zink, N., Kang, K.Y.L., Li, S.-C., & Beste, C. (2020). Anodal transcranial direct current stimulation (atDCS) enhances the efficiency of functional brain network communication during auditory attentional control. *Journal of Neurophysiology*, *124*, 207-217.
- Chiao, J. Y., Li, S.-C., Turner, T., & Lee-Tauler, S. Y. (2020). Cultural neuroscience and the research domain criteria: implications for global mental health. *Neuroscience and Biobehavioral Reviews*, *116*, 109-119.
- Koch, C., Li, S.-C., Polk, T., & Schuck, N. W. (2020). Effects of aging on encoding walking direction in the human brain. *Neuropsychologia*, *141*, 10379.
- Dix, A. & Li, S.-C. (2020). Incentive motivation improves numerosity discrimination: Insights from pupillometry combined with drift-diffusion modelling. *Scientific Reports*, *10*:2068, 1-11.
- Ilg, L., Kirschbaum, C., Li, S.-C., Wimberger, P., Nitsche, K., Rosenlöcher, F., & Alexander, N. (in press). No association of antenatal synthetic glucocorticoid exposure and hair steroid levels in children and adolescents. *The Journal of Clinical Endocrinology & Metabolism*, *105*(1).

2019

- Li, S.-C., Dilcher, R., & Muenchau, A. (2019). Developmental trajectories of sensorimotor and cognitive control in Gilles de la Tourette Syndrome. *Zeitschrift für Neuropsychologie*, *30*, 231-237.
- Ilg, L., Kirschbaum, C., Li, S.-C., Rosenlöcher, F., Miller, R. & Alexander, N. (2019). Persistent effects of antenatal synthetic glucocorticoids on endocrine stress reactivity from childhood to adolescence. *The Journal of Clinical Endocrinology & Metabolism*, *104*(3), 827-834.
- Antonenko, D., Thams, F., Uhrich, J., Dix, A., Thurm, F., Li, S.-C., Grittner, U. & Flöel, A. (2019). Effects of a multi-session cognitive training combined with brain stimulation (TrainStim) on age-associated cognitive decline – study protocol for a randomized controlled Phase IIb (monocenter) trial. *Frontiers in Aging Neuroscience*, *11*, Article 200, 1-12.
- Hilliard, D., Passow, S., Thurm, F., Schuck, N. W., Garthe, A., Kempermann, G., & Li, S.-C. (2019). Noisy galvanic vestibular stimulation modulates spatial memory in young health adults. *Scientific Report*, *9*: 9310.
- Adelhoefer, N., Gohil, K., Passow, S., Beste, C. & Li, S.-C. (2019). Lateral prefrontal anodal transcranial direct current stimulation augments resolution of auditory perceptual-attentional conflicts. *NeuroImage*, *199*, 217-227.
- Dahl, M., Ilg, L., Li, S.-C., Passow, S., & Werkle-Bergner, M. (2019). Diminished pre-stimulus alpha-lateralization suggests compromised self-initiated attentional control of auditory processing in old age. *NeuroImage*, *197*, 412-424.
- Baeuchl, C., Chen, H.-Y., Su, Y.-S., Hämmerer, D., Klados, M. A., & Li, S.-C. (2019). Interactive effects of dopamine transporter genotype and aging on resting-state functional networks. *PLOS ONE* *14*(5): e0215849.
- Reiter, A., Susuki, S., O'Doherty, J., Li, S.-C., & Eppinger, B. (2019). Risk contagion by peers affects learning and decision-making in adolescents. *Journal of Experimental Psychology: General*, *148*, 1494-1504.
- Thams, F., Kuzmina, A., Backhaus, M., Li, S. C., Grittner, U., Antonenko, D., & Flöel, A. (2020). Cognitive training and brain stimulation in prodromal Alzheimer's disease (AD-Stim)—study protocol for a double-blind randomized controlled phase IIb (monocenter) trial. *Alzheimer's Research & Therapy*, *12*(1), 1-12.

2018

- Buritica, J. M. R., Heekeren, H. R., Li, S.-C., & Eppinger, B. (2018). Developmental differences in the neural dynamics of observational learning. *Neuropsychologia*, *119*, 12-23.
- Thurm, F., Zink, N., & Li, S.-C. (2018). Comparing effects of reward anticipation on working memory in younger and older adults. *Frontiers in Psychology*, *9*, Article 231, 1-16.
- Adelhöfer, N., Gohil, K., Passow, S., Roessner, V., Li, S.-C., & Beste, C. (2018). The system-neurophysiological basis for how methylphenidate modulates perceptual-attentional conflicts during auditory processing. *Human Brain Mapping*, *39*, 5050-5061.
- Ilg, L., Klados, M., Alexander, N., Kirschbaum, C. & Li, S.-C. (2018). Long-term impacts of prenatal synthetic glucocorticoids exposure on functional brain correlates of cognitive monitoring in adolescence. *Scientific Reports*, *8*, 7715: 1-11.
- Beste, C., Adelhöfer, N., Gohil, K., Passow, S., Rößner, V., Li, S.-C. (2018). Dopamine modulates the efficiency of sensory evidence accumulation during perception decision making. *The International Journal of Neuropsychopharmacology*.
- Wittkuhn, L. W., Eppinger, B., Bartsch, L. M., Thurm, F., Kord, F. M., Li, S.-C. (2018). Repetitive Transcranial Magnetic Stimulation Over Dorsolateral Prefrontal Cortex Modulates Value-Based Learning During Sequential Decision-Making. *NeuroImage*, *167*, 384-395.
- Schuck, N. W., Petok, J. R., Meeter, M., Schjeide, B.-M. M., Schröder, J., Bertram, L., Gluck, M. A. & Li, S.-C. (2018). Aging and a genetic KIBRA polymorphism interactively affect feedback-and observation-based probabilistic classification learning. *Neurobiology of Aging*, *61*,36-43

2017

- Eppinger, B., Heekeren, H. R., & Li, S.-C. (2017). Age differences in the neural mechanisms of intertemporal choice under subjective decision conflict. *Cerebral Cortex*. 1-17.
- 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 of model-based and model-free decision information. *Cognitive, Affective & 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-striatal 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

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