

Shu-Chen Li's 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., Schjiede, 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 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

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., Heekeren, H. R., Li, S.-C., & Eppinger, B. (2016). Knowing what you don't know: Age-related deficits in representing uncertainty. *Nature Communications*, vol. 7, 11609, 1-13.

2015

Rodriguez Buritica, J. M., Eppinger, B., Schuck, N. W., Heekeren, H. R. and Li, S.-C. (2016), Electrophysiological correlates of observational learning in children. *Dev Sci*, 19: 699–709. doi:10.1111/desc.12317

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., Nietfeld, W., Lindenberger, U. & Bertram, L. (2014). No association between CTNBL1 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., Nietfeld, W., Schjeide, 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.e31213.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.

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Schuck, N. W., Doeller, C. F., Bisenack, J., Schjeide, 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.

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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., Schjeide, 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.
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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.

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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.

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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.

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