

Stanford

Hyesang Chang

Postdoctoral Research Fellow, Psychiatry

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Chicago (2017)

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research aims to understand neural representations and brain networks that support learning and academic achievement across development to bridge the gaps between cognitive and developmental science, neuroscience, and education. I am interested in the interplay between multiple cognitive and affective systems, and neuroplasticity of these systems that give rise to individual differences in how children acquire knowledge and skills in domains important for academic and professional success.

Publications

PUBLICATIONS

- **Faster learners transfer their knowledge better: Behavioral, mnemonic, and neural mechanisms of individual differences in children's learning** *DEVELOPMENTAL COGNITIVE NEUROSCIENCE*
Chang, H., Rosenberg-Lee, M., Qin, S., Menon, V.
2019; 40: 1-14
- **Simple arithmetic: not so simple for highly math anxious individuals** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*
Chang, H., Sprute, L., Maloney, E. A., Beilock, S. L., Berman, M. G.
2017; 12 (12): 1940-49
- **The math anxiety-math performance link and its relation to individual and environmental factors: a review of current behavioral and psychophysiological research** *CURRENT OPINION IN BEHAVIORAL SCIENCES*
Chang, H., Beilock, S. L.
2016; 10: 33-38
- **On the relationship between math anxiety and math achievement in early elementary school: The role of problem solving strategies** *JOURNAL OF EXPERIMENTAL CHILD PSYCHOLOGY*
Ramirez, G., Chang, H., Maloney, E. A., Levine, S. C., Beilock, S. L.
2016; 141: 83-100
- **The Odd-Even Effect in Sudoku Puzzles: Effects of Working Memory, Aging, and Experience** *AMERICAN JOURNAL OF PSYCHOLOGY*
Chang, H., Gibson, J. M.
2011; 124 (3): 313-24
- **Prefrontal and limbic dysregulation during emotional processing in bipolar disorder: a functional magnetic resonance imaging meta-analysis**
Brooks, J. O., Chang, H. S., Bearden, C. E., Glahn, D. C.

WILEY-BLACKWELL.2011: 32–33

- **Dysregulated Activation of Prefrontal and Limbic Regions in Emotional Processing in Bipolar Disorder: A Meta-Analysis**

Brooks, J. O., Chang, H., Bearden, C. E., Glahn, D. C.

ELSEVIER SCIENCE INC.2010: 135S

- **Metabolic Risks in Older Adults Receiving Second-Generation Antipsychotic Medication** *CURRENT PSYCHIATRY REPORTS*

Brooks, J. O., Chang, H., Krasnykh, O.

2009; 11 (1): 33–40