

# SOOK-LEI LIEW

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## EDUCATION

**University of Southern California**, Los Angeles, CA

Ph.D. candidate, August 2008 - present. GPA: 3.9/4.0.

M.A. in Occupational Therapy, May 2008. GPA: 3.8/4.0.

**Rice University**, Houston, TX

B.A. in Kinesiology and English, Magna Cum Laude, May 2006. GPA: 3.9/4.0.

**Peking University**, Beijing, China

Visiting Scholar, National Science Foundation, June-August 2008.

## AWARDS & HONORS

<b>Fellowship</b>	National Science Foundation Graduate Research Fellowship Program, 2009-2012
<b>Fellowship</b>	University of Southern California, Provost's Ph.D. Fellowship, 2008-2013
<b>Fellow</b>	FENS-IBRO Imaging Training Center, Switzerland, 2011
<b>Fellow</b>	UCLA Advanced Neuroimaging Summer Program, 2011
<b>Fellow</b>	Riken Brain Science Institute Summer Program, Japan, 2010
<b>Chair</b>	NSF EAPSI Alumni Panel, Washington D.C., 2010
<b>First Place</b>	USC School of Dentistry Research Day, Occupational Science Division, 2008, 2011
<b>Second Place</b>	USC School of Dentistry Research Day, Occupational Science Division, 2009, 2010
<b>Grant</b>	USC Undergraduate Research Associate Program Grant (\$10,000), 2008-2009
<b>Fellow</b>	Summer Institute in Cognitive Neuroscience, Santa Barbara, 2009
<b>Fellowship</b>	National Science Foundation East Asia and Pacific Summer Institutes, China, 2008
<b>Grant</b>	USC Graduate Professionalism Initiative (\$1300), 2008-2009
<b>Award</b>	USC Elizabeth June Yerxa Award for Excellence in Research, 2008
<b>Scholarship</b>	Asia Pacific Occupational Therapy Congress (APOTC), Hong Kong, 2008
<b>Member</b>	Phi Theta Epsilon (National Occupational Therapy Honor Society), 2007-2008
<b>Scholarship</b>	International Society of Occupational Science Student Delegate, 2007
<b>Scholarships</b>	National Merit Scholarship, Freeman ASIA Scholarship, Target All-Around Scholarship, Rice University Humanities Scholarship, 2002-2006
<b>Member</b>	Rice University President's Honor Roll, Rice Academic Fellow, National Society of Collegiate Scholars, 2002-2006

## PUBLICATIONS

### *In preparation or submission:*

**Liew, S.-L.**, Sheng, T., & Aziz-Zadeh, L. (Submitted). Observing actions performed by a congenital amputee activates one's own sensorimotor regions.

Aziz-Zadeh, L., **Liew, S.-L.**, & Dandekar, F. (Submitted). The neural correlates of visual creativity.

### *In press or print:*

**Liew, S.-L.** & Aziz-Zadeh, L. (In press). The mirror neuron system, social control, and language. [Book chapter]. In: *Handbook of Neurosociology*. Editor: Franks, D. & Turner, J.H.

**Liew, S.-L.**, Garrison, K., Werner, J., & Aziz-Zadeh, L. (2011). The mirror neuron system: Innovations and implications for occupational therapy. *OTJR: Occupation, Participation, and Health*. doi: 10.3928/15394492-20111209-01

Johnson, A., **Liew, S.-L.**, & Aziz-Zadeh, L. (2011). Demographics, learning, and imitation, and body schema in Body Integrity Identity Disorder. *Indiana University Undergraduate Journal of Cognitive Science*, 6:8-15. [Mentored undergraduate]

Aziz-Zadeh, L., Sheng, T., **Liew, S.-L.**, & Damasio, H. (2011). Understanding otherness: The neural basis of action understanding and empathy in a congenital amputee. *Cerebral Cortex*. doi:10.1093/cercor/bhr139

**Liew, S.-L.**, & Aziz-Zadeh, L. (2011). The neuroscience of language in occupations: A review of findings from brain and behavioral sciences. *Journal of Occupational Science*, 18(2), 97-114.

- Liew, S.-L.** & Aziz-Zadeh, L. (2011). The mirror neuron system and social cognition. [Book chapter]. In: *From DNA to Social Cognition*. Editors: Ebstein, Shamay-Tsoory, & Chew.
- Liew, S.-L.**, Ma, Y., Han, S., & Aziz-Zadeh, L. (2011). Who's afraid of the boss: Cultural differences in social hierarchies modulate self-face recognition in Chinese and Americans. *PLoS ONE* 6(2): e16901. doi:10.1371/journal.pone.0016901
- Liew, S.-L.**, Han, S., & Aziz-Zadeh, L. (2011). Familiarity modulates mirror neuron and mentalizing regions during intention understanding. *Human Brain Mapping*. 32, 1986-1997. doi: 10.1002/hbm.21164

## INVITED PRESENTATIONS

- Liew, S.-L.** (2011, October). *Experience and the action observation network*. Social Cognitive Neuroscience Laboratory, Dr. Matthew Lieberman, UCLA, Los Angeles, CA.
- Liew, S.-L.** (2011, October). *Experience-dependent modulations of action observation networks in healthy and clinical populations*. Virginia Tech Carilion Research Institute, Roanoke, VA.
- Liew, S.-L.** (2011, September). *Who's the Boss: Cross-cultural differences in the workplace*. Invited speaker at Mindshare LA, general public audience of over 350. Los Angeles, CA.
- Liew, S.-L.** (2011, June, August). *Introduction to Neuroimaging Tools | fMRI Preprocessing Methods*. USC Neuroimaging Workshop(s), Los Angeles, CA.
- Liew, S.-L.** (2010, July). *Action understanding of physically different others and empathy correlations*. Selected student speaker at the Riken BSI Summer Program, Tokyo, Japan.
- Liew, S.-L.** (2010, April). *The EAPSI experience*. Invited chair of the alumni panel at the National Science Foundation's East Asia & Pacific Summer Institutes. Washington, DC.
- Liew, S.-L.** & Aziz-Zadeh, L. (2010, March). *The neuroscience of daily social interactions*. Invited speaker at the USC Occupational Science 22<sup>nd</sup> Annual Symposium, Los Angeles, CA.
- Liew, S.-L.** & Aziz-Zadeh, L. (2009, October). *Playing with words: The active role of language in everyday occupations*. Invited presentation at the Society for the Study of Occupations: USA Annual Meeting, New Haven, CT.
- Liew, S.-L.** (2009, April). *EAPSI China*. Invited alumni speaker at the National Science Foundation's East Asia & Pacific Summer Institutes, Washington, DC.

## SELECTED CONFERENCE PROCEEDINGS

- Liew, S.-L.**, Garrison, K.A., Haldar, J., Winstein, C.J., Damasio, H., & Aziz-Zadeh, L. (2011, November). Structural neuroanatomy of lesioned brains in chronic stroke patients and correlations with functional activation of motor-related neural networks. [Abstract]. *Society for Neuroscience Annual Meeting*. Washington, D.C.
- Liew, S.-L.**, Garrison, K.A., Damasio, H., & Aziz-Zadeh, L. (2011, August). *Experience and action observation networks in the brain: Integrating findings across physical differences and physical disability*. [Abstract]. *FENS-IBRO Imaging Training Center*, Lausanne/Geneva, Switzerland.
- Liew, S.-L.**, Seckin, M., & Aziz-Zadeh, L. (2011, April). *The effects of experience on the observation of novel effectors and empathy correlations*. [Abstract]. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.
- Liew, S.-L.**, Seckin, M., Johnson, A. & Aziz-Zadeh, L. (2011, February). *The role of experience in understanding physically different others*. [Abstract]. *USC School of Dentistry Research Day*, Los Angeles, CA. Awarded First Place in division.
- Liew, S.-L.**, Seckin, M., & Aziz-Zadeh, L. (2011, January). *Action observation of a physically different individual: An fMRI study of visual experience*. [Abstract]. *Experiment Psychology Society*, London, UK.
- Liew, S.-L.**, Dandekar, F., Epstein, D., & Aziz-Zadeh, L. (2010, November). *The neural correlates of visual creativity*. [Abstract]. *Society for Neuroscience Annual Meeting*. San Diego, CA.
- Liew, S.-L.**, Sheng, T., & Aziz-Zadeh, L. (2010, April). *The neural correlates of stigma for physical differences*. [Abstract]. *Cognitive Neuroscience Society Annual Meeting*, Montreal, Canada.
- Liew, S.-L.**, Sheng, T., & Aziz-Zadeh, L. (2010, February). *The neural correlates of observing physical differences and empathy correlations*. [Abstract]. *USC School of Dentistry Research Day*, Los Angeles, CA. Awarded Second Place in division.
- Liew, S.-L.**, Han, S., & Aziz-Zadeh, L. (2009, October). *Activation of mirror neuron and theory of mind systems is modulated by familiarity and individual differences in empathy*. [Abstract]. *Society for Neuroscience Annual Meeting*, Chicago, IL.

- Liew, S.-L.**, Aziz-Zadeh, L., & Han, S. (2009, April). Out of hand: How experience and race modulate neural correlates of gesture observation. [Abstract]. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.
- Liew, S.-L.**, Sheng, T., & Aziz-Zadeh, L. (2009, February). Mission impossible: An fMRI study of motor empathy for impossible actions in a woman with congenital limb deficiencies. [Abstract]. *USC School of Dentistry Research Day*, Los Angeles, CA. Awarded Second Place in division.
- Aziz-Zadeh, L., Sheng, T., **Liew, S.-L.**, Bukowski, H., Damasio, H., & Damasio, A. (2009, April). Understanding and empathizing with dissimilar others: A case study of a congenital amputee. [Abstract]. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.

## RESEARCH and GRANT WRITING EXPERIENCE

- Graduate Research Assistant**, The Brain and Creativity Institute, Advisor: Dr. Lisa Aziz-Zadeh, August 2007 – present.
- Grant Writer**, National Institutes of Health Research Project Grant R01, pending to Dr. Aziz-Zadeh, 2011
- Grant Writer**, National Institutes of Health Research Project Grant R03, awarded to Dr. Aziz-Zadeh, 2008
- Lab Manager**, The A-Z Lab, Dr. Lisa Aziz-Zadeh, Aug 2007 – May 2008.
- Visiting Research Fellow**, Peking University, Advisor: Dr. Shihui Han, June – August 2008.
- Graduate Assistant**, International Society of Occupational Science, Dr. Diane Parham & Visiting Scholar Dr. Alison Wicks, Aug 2006 – May 2007.
- Research Assistant**, Baylor College of Medicine Behavioral Research Center, Dr. Rebecca Reeves, May 2003 – Aug 2003.

## TEACHING, MENTORING, & SERVICE EXPERIENCE

- Instructor**, OT441: Foundations: Neuroscience, *University of Southern California*, January – May 2012. *Taught an upper-level undergraduate course focusing on the foundations of neuroscience, structure and function of nervous system, and pathological conditions affecting an individual's ability to engage in occupations.*
- Guest Lecturer**, *University of Southern California*, February 2012, October 2011, April 2008. *Invited lecturer for a masters-level physical rehabilitation course and an undergraduate Neuroscience course.*
- Graduate Student Instructor**, *University of Southern California*, May – August 2007. *Summer courses in Neuroscience & Kinesiology for first year masters students.*
- Graduate Mentor**, *University of Southern California*, January 2008 – present. *Mentored over 15 undergraduates from varying academic disciplines on cognitive neuroscience research including structural MRI and fMRI techniques and data analysis, with over 8 undergraduates receiving university fellowships for their research.*
- Chairperson of Judging Committee**, *Los Angeles County Science & Engineering Fair, Junior Behavioral Division*, 2011, *Senior Behavioral Division 2009, Junior Behavioral Division 2008.*
- Science Fair Mentor**, *USC Health Sciences Campus Science Fair*, Feb – April 2007, 2011. *Mentored a classroom of 5<sup>th</sup> graders in an underprivileged elementary school on the scientific method, and led them through the steps of creating and presenting a class science fair project.*
- Ad Hoc Reviewer**, *NeuroImage*, July 2011 – present.
- NeurOnline Champion**, *Society for Neuroscience NeurOnline Communities*, May 2011 – present. *Responsible for seeding, monitoring, and contributing to the growth of the Society for Neuroscience's online communities.*
- Contributor**, *grandmotherneuron.wordpress.com*, February 2011 – present. *Student-run web blog aimed at communicating neuroscience to the general public.*
- Regional Alumni Coordinator & Volunteer**, *Association of Rice University Alumni*, August 2007 – present. *Initiate, plan, and execute Rice alumni events, build the alumni community in Los Angeles (2011 – present); represent Rice at college fairs and prospective student interviews (2007 - present).*
- Various Service Projects**, *Greater Los Angeles*, August 2007 – present. *Organized multiple groups of volunteers for EatReal LA, The Childrens Lifesaving Foundation, etc.*

## CLINICAL EXPERIENCE

- Supplemental Healthcare**, *Per Diem Occupational Therapist (OTR/L)*, April 2010 – present. *Occupational therapist specializing in adult neural and physical disabilities, geriatrics, and skilled nursing, with an emphasis on providing care as part of an interdisciplinary team.*
- Cedars Sinai Medical Center**, *Level II Fieldwork Intern*, May 2009 – August 2009.

Twelve week internship in acute rehabilitation with a focus on patients with spinal/neurological conditions. Development of evaluation skills, treatment planning and execution, and assessment.

**Therapy West and pLAy Studio, Inc.**, *Level II Fieldwork Intern*, September 2007 – April 2008

Twenty-four week module focused on treatment of pediatrics with disabilities, with an emphasis on skill development in areas of sensory integration, fine motor, gross motor, postural control, sensory motor, personal-social, perceptual, attentional, and self-help components.

## **PROFESSIONAL AFFILIATIONS & ACTIVITIES**

**National Board for Certification in Occupational Therapy**, Registered Occupational Therapist

**California Board of Occupational Therapy**, Licensed Occupational Therapist

**National Strength and Conditioning Association (NSCA)**, Certified Strength and Conditioning Specialist

**Society for Neuroscience (SFN)**, Member

**Cognitive Neuroscience Society (CNS)**, Member

**Society for Social Neuroscience**, Member

**USC Cognitive Neuroscience Journal Club**, Member

**USC Consciousness Study Group**, Member

**USC Computational Neuroscience Group**, Member

**International Society of Occupational Science (ISOS)**, Member

**American Occupational Therapy Association (AOTA)**, Member

**Society for the Study of Occupation USA (SSO:USA)**, Member

**American Heart Association (AHA)**, Healthcare Provider CPR/AED Certified