Exponent®
Engineering & Scientific Consulting

Jennifer Park, Ph.D.

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Professional Profile

Dr. Park has extensive training in the areas of perception, learning, and memory and how they influence behavior, as well as considerable experience in experimental design and data analysis. She applies her expertise to address and analyze human factors contributions to a wide range of scenarios including trips, slips, and falls, automobile accidents, product warnings and safety information, and use of consumer products.

Dr. Park received her PhD in Neuroscience from the University of Southern California (USC). Her research focused on somatosensation, decision making, and learning in both normal and disease conditions. She utilized a wide variety of techniques including brain imaging and genetic, behavioral, psychophysical, and biological methods. As a pioneer in an emerging field, she trained and advised scientists from around the world in specialized, cutting edge techniques and data analysis methods. In addition, Dr. Park was a neurobiology instructor at the University of Southern California, teaching undergraduates about the structure, function, and development of the nervous system; sensation and perception; and neural integration and mechanisms of behavior. Prior to joining Exponent, Dr. Park served as Director of Operations and Communications for Neurolabware, a research technologies company focused on developing brain imaging systems.

Academic Credentials & Professional Honors

Ph.D., Neuroscience, University of Southern California, 2016

B.S., Biopsychology, University of California, Santa Barbara, 2008

Undergraduate High Honors

Exceptional Academic Performance Award

Licenses and Certifications

Certified English XL Tribometrist (CXLT)

Academic Appointments

Instructor, Neurobiology, University of Southern California, 2010

Prior Experience

Director of Operations and Communications, Neurolabware, 01/2016 - 10/2019

Professional Affiliations

Human Factors and Ergonomics Society (member)

Publications

Park, J. I., King, D. R., Jonas, R. K., & Phillips, K. B. (2022, September). An observational study of skier and snowboarder chairlift lap bar, helmet, and snow goggle usage. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 66, No. 1, pp. 1330-1334). Sage CA: Los Angeles, CA: SAGE Publications.

Park JI, et al. Nogo receptor 1 limits tactile task performance independent of basal anatomical plasticity. PLoS One 2014; e112678.

Presentations

Park, JI. Perceptual learning and anatomical plasticity in somatosensory cortex. Invited speaker, University of Southern California Neuroscience Seminar, Los Angeles, CA, 2015.

Park, JI, et al. Anatomical plasticity of adult brain is not titrated by Nogo Receptor 1. Poster presentation, University of Southern California Neuroscience Symposium, Los Angeles, CA, 2015.

Park JI. In vivo imaging of dendritic spines during tactile perceptual learning. Invited speaker, Children's Hospital Los Angeles Developmental Neuroscience Seminar, Los Angeles, CA, 2014.

Park, JI, et al. Anatomical plasticity of adult brain is not titrated by Nogo Receptor 1. Poster presentation, Children's Hospital Los Angeles 19th Annual Symposium, Los Angeles, CA, 2014.

Park, JI, et al. Anatomical plasticity of adult brain is not titrated by Nogo Receptor 1. Poster presentation, Society for Neuroscience 43rd Annual Meeting, San Diego, CA, 2013.

Park, JI. In vivo imaging of spine dynamics in the barrel cortex during perceptual learning. Poster presentation, Children's Hospital Los Angeles 18th Annual Symposium, Los Angeles, CA, 2013.

Park, JI. Anatomical plasticity and perceptual learning in Fragile X syndrome. Invited speaker, Children's Hospital Los Angeles Developmental Neuroscience Seminar, Los Angeles, CA, 2013.

Park, JI. In vivo imaging of spine dynamics in the barrel cortex during perceptual learning. Poster presentation, Society for Neuroscience 42nd Annual Meeting, New Orleans, LA, 2012.

Park, JI. In vivo imaging of spine dynamics in the barrel cortex during perceptual learning. Invited speaker, University of Southern California Neurobiology Seminar, Los Angeles, CA, 2012.

Park, JI, et al. D3 dopamine receptor signaling is necessary for the normal development of cortical circuitry. Invited speaker, University of Southern California Neurobiology Seminar, Los Angeles, CA, 2011.

Park, JI, et al. Topographic organization of touch localization and its short-term retrieval. Invited Speaker, University of Southern California Neurobiology Seminar, Los Angeles, CA, 2010.

Park, JI, et al. Topographic organization of touch localization and its short-term retrieval. Poster presentation, Society for Neuroscience 40th Annual Meeting, San Diego, CA, 2010.

Park JI, et al. Topography of tactile working memory. Poster presentation, University of Southern California Interdisciplinary Symposium, Los Angeles, CA, 2010.