Zhongzheng (Brooks) Fu, Ph.D.

ORCID: 0000-0002-2572-6284 1200 East California Boulevard MC 228-77

Email: zzbrooksfu@gmail.com Pasadena, CA 91125 Website: brooksfu.github.io

United States

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Professional Appointments

2020 - on**Postdoctoral Scholar**

> Department of Neurosurgery Cedars-Sinai Medical Center Los Angeles, CA, USA

2020 - on**Visiting Postdoctoral Scholar**

Division of the Humanities and Social Sciences

California Institute of Technology

Pasadena, CA, USA

Postdoctoral Scholar 2019 - 2020

Division of the Humanities and Social Sciences

California Institute of Technology

Pasadena, CA, USA

Education

Ph.D. in Control and Dynamical Systems, California Institute of Technology, Pasadena, CA, USA 2012 - 2018

2010 Academic Exchange, University of California at Berkeley, Berkeley, CA, USA

B.Sc. in Physics, University of Hong Kong, Hong Kong, China 2008 - 2011

Publications

Peer-reviewed Papers

2022	Z. Fu , A. Sajad, S. P. Errington, J. D. Schall, U. Rutisnauser. Neurophysiological mechanisms of
	performance monitoring in human and nonhuman primates. Nature Reviews Neuroscience.
	In press.

- Z. Fu, D. Beam, J. M. Chung, C. M. Reed, A. N. Mamelak, R. Adolphs, U. Rutishauser. The geometry 2022 of domain-general performance monitoring in the human medial frontal cortex. Science. 376, eabm9922 doi:10.1126/science.abm9922.
- 2019 3 Z. Fu, D. A. J. Wu, I. Ross, J. M. Chung, A. N. Mamelak, R. Adolphs, U. Rutishauser. Single-neuron correlates of error monitoring and post-error adjustments in human medial frontal cortex. *Neuron.* 101, 165-177.e5 doi:10.1016/j.neuron.2018.11.016.
- Z. Fu, U. Rutishauser. Single-neuron correlates of awareness during attentional blinks. *Trends* 2017 in Cognitive Sciences. 22(1), 5-7 doi:10.1016/j.tics.2017.10.005.

S. Sun, S. Zhen, **Z. Fu**, D. A. J. Wu, S. Shimojo, R. Adolphs, R. Yu, S. Wang. Decision ambiguity is mediated by a late positive potential originating from cingulate cortex. *Neuroimage*. 157, 400-414. doi:10.1016/j.neuroimage.2017.06.003.

2013

8 F. Klein, R. Diskin, J. F. Scheid, C. Gaebler, H. Mouquet, I. S. Georgiev, M. Pancera, T. Zhou, R. Incesu, **Z. Fu**, P. NP. Gnanapragasam, T. Y. Oliveira, M. S. Seaman, P. D. Kwong, P. J. Bjorkman, M. C. Nussenzweig. Somatic mutations of the immunoglobulin framework are generally required for broad and potent HIV-1 neutralization. *Cell*. 153, 126-138. doi:10.1016/j.cell.2013.03.018.

Awards & Honors

2022	Trainee Highlight Award, The BRAIN Initiative Meeting
2022	CNSM Prize for an Exceptional Publication, Center for Neural Science and Medicine, Cedars-Sinai Medical Center
2019	Spot Research Award for Outstanding Publication, Department of Neurosurgery, Cedars-Sinai Medical Center
2010	Rising Stars of Research Award, University of British Columbia
2009	Overseas Research Fellowship, University of Hong Kong
2009	International Genetically Engineered Machine Competition (iGEM), Gold Awards
2009	Summer Research Award, University of Hong Kong

Mentoring Experience

Undergraduate

2020 – 2021 Danielle Beam

Project: Hierarchical Bayesian modeling of flexible cognitive control

Cedars-Sinai Medical Center

2020 Elise. Y. Liu, California Institute of Technology

Project: Domain generality of conflict adaptation effects

Caltech SURF program

Elizabeth (Rae) Moar

Project: Perceptual straightening in autism using hierarchical Bayesian modelling

Caltech SURF program

Conferences, Workshops & Presentations

Invited Workshops

2018 Sloan-NOMIS Summer School on Cognitive Foundations of Economic Behaviors, University of Zurich

Junior Scientist Workshop on Mechanistic Cognitive Neuroscience, Janelia Farm Research

Campus, Howard Hughes Medical Institute

2016 Berkeley Summer Course in Mining and Modeling Neuroscience Data, University of California

at Berkeley

Conferences

2022 Annual Meeting of the Cognitive Neuroscience Society

2017 American Association of Neurological Surgeons Annual Scientific Meeting

2014 – 2021 Annual Meetings of the Society for Neuroscience

Invited Talks

2022 8th Annual BRAIN Initiative Meeting

2022 TCCI Neurochat

2017 American Association of Neurological Surgeons Annual Scientific Meeting

Professional Membership

2021 – on Cognitive Neuroscience Society

2013 – on Society for Neuroscience