Zhongzheng (Brooks) Fu, Ph.D.

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Academic Positions

2023 – on **Assistant Professor**

Department of Neurological Surgery UT Southwestern Medical Center

Dallas, TX, USA

Email: zhongzheng.fu@utsouthwestern.edu

2023 – on **Visiting Scholar**

Division of the Humanities and Social Sciences

California Institute of Technology

Pasadena, CA, USA

Postdoctoral Trainings

2020 – 2023 **Postdoctoral Scholar**

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

2020 – 2023 **Visiting Postdoctoral Scholar**

Division of the Humanities and Social Sciences

California Institute of Technology

Pasadena, CA, USA

2019 – 2020 **Postdoctoral Scholar**

Division of the Humanities and Social Sciences

California Institute of Technology

Pasadena, CA, USA

Education

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

2010 **Exchange Scholarship in Biophysics**, University of California at Berkeley, Berkeley, CA, USA

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

Publications

Peer-reviewed Papers

- **Z. Fu**, A. Sajad, S. P. Errington, J. D. Schall, U. Rutishauser. Neurophysiological mechanisms of performance monitoring in human and nonhuman primates. *Nature Reviews Neuroscience*. doi:10.1038/s41583-022-00670-w.
- **Z. Fu**, D. Beam, J. M. Chung, C. M. Reed, A. N. Mamelak, R. Adolphs, U. Rutishauser. The geometry of domain-general performance monitoring in the human medial frontal cortex. *Science*. 376, eabm9922 doi:10.1126/science.abm9922.
- 2019 **8 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 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 & 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

2023	Malaniak Awards for Excellence in Postdoctoral Research, Cedars-Sinai Medical Center
2023	CNSM Prize for an Exceptional Publication, Center for Neural Science and Medicine, Cedars-Sinai Medical Center
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

Conferences, Workshops & Presentations

Invited Workshops

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