



## Kieran Charles Ryan Fox

MD Student with Scholarly Concentration in Molecular Basis of Medicine / Neuroscience, Behavior, and Cognition, expected graduation Spring 2023

 Curriculum Vitae available Online

### Bio

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#### BIO

Dr. Fox holds a PhD in cognitive neuroscience and is currently pursuing an MD at Stanford's School of Medicine. His doctoral research focused on the brain basis of meditation and mindfulness and on meta-analytic integration of functional and structural neuroimaging data. He currently works in Stanford's Department of Neurology and Neurological Sciences, using intracranial electrical stimulation of the human brain to conduct research on cognition and emotion in patients with severe epilepsy. His original research has appeared in high-impact peer-reviewed publications, including *Neurology*, *Nature Human Behaviour*, and *Nature Ecology & Evolution*, as well as theoretical and review articles in *Nature Reviews Neuroscience* and *Trends in Cognitive Sciences*. His research has garnered widespread attention, including coverage in *The Guardian*, *Scientific American*, and the *BBC*.

### Research & Scholarship

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#### LAB AFFILIATIONS

- Josef Parvizi, Laboratory of Behavioral and Cognitive Neuroscience (2/1/2017)

### Publications

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#### PUBLICATIONS

- **Electrocorticographic evidence of a common neurocognitive sequence for mentalizing about the self and others.** *Nature communications*  
Tan, K. M., Daitch, A. L., Pinheiro-Chagas, P., Fox, K. C., Parvizi, J., Lieberman, M. D.  
2022; 13 (1): 1919
- **Does the Prefrontal Cortex Play an Essential Role in Consciousness? Insights from Intracranial Electrical Stimulation of the Human Brain.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Raccah, O., Block, N., Fox, K. C.  
2021; 41 (10): 2076–87
- **Fidelity of first-person reports following intracranial neuromodulation of the human brain: An empirical assessment of sham stimulation in neurosurgical patients.** *Brain stimulation*  
Fox, K. C., Parvizi, J.  
2020
- **Intrinsic network architecture predicts the effects elicited by intracranial electrical stimulation of the human brain.** *Nature human behaviour*  
Fox, K. C., Shi, L., Baek, S., Raccah, O., Foster, B. L., Saha, S., Margulies, D. S., Kucyi, A., Parvizi, J.  
2020
- **Intensity of affective experience is modulated by magnitude of intracranial electrical stimulation in human orbitofrontal, cingulate and insular cortices** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*  
Yih, J., Beam, D. E., Fox, K. R., Parvizi, J.

2019; 14 (4): 339–51

- **Changes in subjective experience elicited by direct stimulation of the human orbitofrontal cortex.** *Neurology*  
Fox, K. C., Yih, J., Racciah, O., Pendekanti, S. L., Limbach, L. E., Maydan, D. D., Parvizi, J.  
2018
- **Affective neuroscience of self-generated thought.** *Annals of the New York Academy of Sciences*  
Fox, K. C., Andrews-Hanna, J. R., Mills, C., Dixon, M. L., Markovic, J., Thompson, E., Christoff, K.  
2018
- **Intracranial Electrophysiology of the Human Default Network** *TRENDS IN COGNITIVE SCIENCES*  
Fox, K. R., Foster, B. L., Kucyi, A., Daitch, A. L., Parvizi, J.  
2018; 22 (4): 307–24
- **The social and cultural roots of whale and dolphin brains** *NATURE ECOLOGY & EVOLUTION*  
Fox, K. R., Muthukrishna, M., Shultz, S.  
2017; 1 (11): 1699–1705
- **Letter to the Editor: Miscommunicating Mindfulness** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*  
Van Dam, N. T., van Vugt, M., Vago, D. R., Schmalzl, L., Saron, C. D., Olendzki, A., Meissner, T., Lazar, S. W., Gorchov, J., Fox, K. R., Field, B. A., Britton, W., Brefczynski-Lewis, et al  
2020: 1745691620924057
- **Mind-wandering as creative thinking: neural, psychological, and theoretical considerations** *CURRENT OPINION IN BEHAVIORAL SCIENCES*  
Fox, K. R., Beaty, R. E.  
2019; 27: 123–30
- **Aging and the wandering brain: Age-related differences in the neural correlates of stimulus-independent thoughts.** *PloS one*  
Maillet, D. n., Beaty, R. E., Adnan, A. n., Fox, K. C., Turner, G. R., Spreng, R. N.  
2019; 14 (10): e0223981
- **Mind-Wandering as a Scientific Concept: Cutting through the Definitional Haze** *TRENDS IN COGNITIVE SCIENCES*  
Christoff, K., Mills, C., Andrews-Hanna, J. R., Irving, Z. C., Thompson, E., Fox, K. R., Kam, J. Y.  
2018; 22 (11): 957–59
- **Reiterated Concerns and Further Challenges for Mindfulness and Meditation Research: A Reply to Davidson and Dahl** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*  
Van Dam, N. T., van Vugt, M. K., Vago, D. R., Schmalzl, L., Saron, C. D., Olendzki, A., Meissner, T., Lazar, S. W., Gorchov, J., Fox, K. R., Field, B. A., Britton, W. B., Brefczynski-Lewis, et al  
2018; 13 (1): 66–69
- **Mind the Hype: A Critical Evaluation and Prescriptive Agenda for Research on Mindfulness and Meditation** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*  
Van Dam, N. T., van Vugt, M. K., Vago, D. R., Schmalzl, L., Saron, C. D., Olendzki, A., Meissner, T., Lazar, S. W., Kerr, C. E., Gorchov, J., Fox, K. R., Field, B. A., Britton, et al  
2018; 13 (1): 36–61