



Josef Parvizi, MD, PhD

Professor of Neurology and Neurological Sciences (Adult Neurology) and, by courtesy, of Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

213 Quarry Rd

MC 5957 FI 2

Palo Alto, CA 94304

Tel (650) 725-6648 **Fax** (650) 498-6326

Bio

BIO

Dr. Parvizi completed his medical internship at Mayo Clinic, neurology training at Harvard, and subspecialty training in clinical neurophysiology and epilepsy at UCLA before joining the Department of Neurology and Neurological Sciences at Stanford in 2007. Dr. Parvizi directs the Stanford Program for Medication Resistant Epilepsies and specializes in surgical treatments of intractable focal epilepsies. Dr. Parvizi is the principal investigator in the Laboratory of Behavioral and Cognitive Neuroscience, where he leads a team of investigators to study the human brain. <http://med.stanford.edu/parvizi-lab.html>.

Epilepsy patient story: <https://www.youtube.com/watch?v=HXy-gXg0t94&t=3s>

CLINICAL FOCUS

- Uncontrollable Seizures
- electrocorticography
- functional brain mapping
- Epilepsy

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Adult Neurology
- Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2016)

- Board Certification: Neurology, American Board of Psychiatry and Neurology (2008)
- Fellowship: UCLA Dept of Neurology (2007) CA
- Residency: Beth Israel Deaconess Medical Center Neurology Residency (2006) MA
- Internship: Mayo Clinic Internal Medicine Residency (2003) MN
- Medical Education: University of Oslo Medical School (1995) Norway
- PhD, University of Iowa , Neuroscience (1999)

COMMUNITY AND INTERNATIONAL WORK

- Free Neurology Clinic, Menlo Park - Arbor Clinic (www.arbor.stanford.edu)

LINKS

- Laboratory of Behavioral and Cognitive Neuroscience: <http://neurology.stanford.edu/labs/parvizilab/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Epilepsy patient story: <https://stanfordhealthcare.org/stanford-health-care-now/videos/seizure-free-and-a-new-perspective-after-minimally-invasive-epilepsy-treatment.html>

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Sina Sadeghzadeh

Postdoctoral Faculty Sponsor

Weichen Huang, Heejung Jung

Doctoral Dissertation Reader (NonAC)

Christopher Minasi

Publications

PUBLICATIONS

- **Mapping human thalamocortical connectivity with electrical stimulation and recording.** *Nature neuroscience*
Lyu, D., Stiger, J. R., Lusk, Z., Buch, V., Parvizi, J.
2025
- **Cross-regional coordination of activity in the human brain during autobiographical self-referential processing.** *Proceedings of the National Academy of Sciences of the United States of America*
Stieger, J. R., Pinheiro-Chagas, P., Fang, Y., Li, J., Lusk, Z., Perry, C. M., Girn, M., Contreras, D., Chen, Q., Huguenard, J. R., Spreng, R. N., Edlow, B. L., Wagner, et al
2024; 121 (32): e2316021121
- **Causal evidence for the processing of bodily self in the anterior precuneus.** *Neuron*
Lyu, D., Stieger, J. R., Xin, C., Ma, E., Lusk, Z., Aparicio, M. K., Werbaneth, K., Perry, C. M., Deisseroth, K., Buch, V., Parvizi, J.
2023
- **Multisite thalamic recordings to characterize seizure propagation in the human brain.** *Brain : a journal of neurology*
Wu, T. Q., Kaboodvand, N., McGinn, R. J., Veit, M., Davey, Z., Datta, A., Graber, K. D., Meador, K. J., Fisher, R., Buch, V., Parvizi, J.
2023
- **Causal mapping of human brain function.** *Nature reviews. Neuroscience*
Siddiqi, S. H., Kording, K. P., Parvizi, J., Fox, M. D.
2022

- **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., Raccach, O., Foster, B. L., Saha, S., Margulies, D. S., Kucyi, A., Parvizi, J.
2020
- **Cognitive refractory state caused by spontaneous epileptic high-frequency oscillations in the human brain.** *Science translational medicine*
Liu, S., Parvizi, J.
2019; 11 (514)
- **Promises and limitations of human intracranial electroencephalography** *NATURE NEUROSCIENCE*
Parvizi, J., Kastner, S.
2018; 21 (4): 474–83
- **Intracranial Electrophysiology of the Human Default Network** *TRENDS IN COGNITIVE SCIENCES*
Fox, K. C. R., Foster, B. L., Kucyi, A., Daitch, A. L., Parvizi, J.
2018; 22 (4): 307–24
- **Intrinsic and Task-Dependent Coupling of Neuronal Population Activity in Human Parietal Cortex** *NEURON*
Foster, B. L., Rangarajan, V., Shirer, W. R., Parvizi, J.
2015; 86 (2): 578-590
- **The will to persevere induced by electrical stimulation of the human cingulate gyrus.** *Neuron*
Parvizi, J., Rangarajan, V., Shirer, W. R., Desai, N., Greicius, M. D.
2013; 80 (6): 1359-1367
- **Electrical Stimulation of Human Fusiform Face-Selective Regions Distorts Face Perception** *JOURNAL OF NEUROSCIENCE*
Parvizi, J., Jacques, C., Foster, B. L., Withoft, N., Rangarajan, V., Weiner, K. S., Grill-Spector, K.
2012; 32 (43): 14915-14920
- **Neural populations in human posteromedial cortex display opposing responses during memory and numerical processing** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Foster, B. L., Dastjerdi, M., Parvizi, J.
2012; 109 (38): 15514-15519
- **Corticocentric myopia: old bias in new cognitive sciences** *TRENDS IN COGNITIVE SCIENCES*
Parvizi, J.
2009; 13 (8): 354-359
- **Combining Clinical Evaluations and Neuroscience Research in the Human Intracranial Electroencephalography Practice: 15-Year Cohort Study** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Lusk, Z., Kwon, A. Y., Pantis, S., Nam, S., Lyu, D., Fisher, R., van Staaldin, E. K., Buch, V., Parvizi, J.
2025; 37 (11): 2108-2125
- **Electrophysiological connections linking medial pulvinar, anterior nuclei of the thalamus and the hippocampus.** *Brain : a journal of neurology*
Togo, M., Lyu, D., Huang, W., Pantis, S., Fisher, R., Matsumoto, R., Buch, V., Parvizi, J.
2025
- **Decide, act, reflect, and maybe a self in all this?** *Proceedings of the National Academy of Sciences of the United States of America*
Parvizi, J.
2025; 122 (31): e2514623122
- **Targeted multinodal thalamic deep brain stimulation for epilepsy: A retrospective case series.** *Epileptic disorders : international epilepsy journal with videotape*
Chang, R., Reid, B., McGeoch, P., Lusk, Z., Graber, K., Fisher, R., Parvizi, J., Buch, V.
2025
- **Mapping electrophysiological connectivity of pulvinar in seizure propagation and neuromodulation.** *Epilepsia*
Yao, Y., Wang, X., Zhao, B., Hu, W., Wang, L., Shao, X., Guo, Z., Yang, B., Li, Z., Cai, D., Fan, X., Parvizi, J., Zhang, et al
2025

- **Functionally diverse human insular architecture with memory-related hippocampal interactions** *NATURE NEUROSCIENCE*
Huang, W., Parvizi, J.
2025
- **Direct interactions between the human insula and hippocampus during memory encoding.** *Nature neuroscience*
Huang, W., Lyu, D., Stieger, J. R., Gotlib, I. H., Buch, V., Wagner, A. D., Parvizi, J.
2025
- **Mapping the Effects of Intracranial Electrical Stimulation of the Human Orbitofrontal Cortex.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
Pantis, S., Lyu, D., Huang, W., Kwon, A., Cheng, C., Duong, A., Ma, E., Fox, K. C., Parvizi, J.
2025
- **Thalamus, evoked responses and triphasic waves.** *Nature communications*
Parvizi, J.
2025; 16 (1): 5221
- **Human attention-guided visual perception is governed by rhythmic oscillations and aperiodic timescales.** *PLoS biology*
Raposo, I., Fiebelkorn, I. C., Lin, J. J., Parvizi, J., Kastner, S., Knight, R. T., Breska, A., Helfrich, R. F.
2025; 23 (6): e3003232
- **Topographical map of subjective states evoked by focal seizures and electrical stimulation of the human insula.** *Epilepsia*
Duong, A., Daliri, A., Montavont, A., Von Stein, E. L., van Staalduinen, E. K., Pantis, S., Marc, G., Rheims, S., Buch, V., Mazzola, L., Parvizi, J.
2025
- **Naturalistic acute pain states decoded from neural and facial dynamics.** *Nature communications*
Huang, Y., Gopal, J., Kakusa, B., Li, A. H., Huang, W., Wang, J. B., Persad, A., Ramayya, A., Parvizi, J., Buch, V. P., Keller, C. J.
2025; 16 (1): 4371
- **Reduced montage electroencephalography: A choice between pragmatism and conventionalism.** *Neurophysiologie clinique = Clinical neurophysiology*
Parvizi, J., Gururangan, K.
2025; 55 (2): 103063
- **Ictal Involvement of the Pulvinar and the Anterior Nucleus of the Thalamus in Patients With Refractory Epilepsy.** *Neurology*
McGinn, R., Von Stein, E. L., Datta, A., Wu, T., Lusk, Z., Nam, S., Dilts-Garcha, M., Fisher, R. S., Buch, V., Parvizi, J.
2024; 103 (11): e210039
- **Multinuclear thalamic targeting with human stereotactic electroencephalography: surgical technique and nuances.** *Journal of neurosurgery*
Jamiolkowski, R. M., Datta, A., Willsey, M. S., Parvizi, J., Buch, V. P.
2024: 1-9
- **Naturalistic acute pain states decoded from neural and facial dynamics.** *bioRxiv : the preprint server for biology*
Huang, Y., Gopal, J., Kakusa, B., Li, A. H., Huang, W., Wang, J. B., Persad, A., Ramayya, A., Parvizi, J., Buch, V. P., Keller, C.
2024
- **The Cost of After-Hour Electroencephalography.** *Neurology. Clinical practice*
Ney, J. P., Nuwer, M. R., Hirsch, L. J., Burdelle, M., Trice, K., Parvizi, J.
2024; 14 (2): e200264
- **Spatiotemporal dynamics of successive activations across the human brain during simple arithmetic processing.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Pinheiro-Chagas, P., Sava-Segal, C., Akkol, S., Daitch, A., Parvizi, J.
2024
- **Intracranial recordings of the human orbitofrontal cortical activity during self-referential episodic and valenced self-judgments.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Iravani, B., Kaboodvand, N., Stieger, J. R., Liang, E. Y., Lusk, Z., Fransson, P., Deutsch, G. K., Gotlib, I. H., Parvizi, J.
2024

- **Evolution of SEEG Strategy: Stanford Experience.** *Neurosurgery clinics of North America*
Buch, V. P., Parvizi, J.
2024; 35 (1): 83-85
- **IMPROVEMENTS IN A MACHINE-LEARNING ALGORITHM FOR DETECTING STATUS EPILEPTICUS**
Kamoussi, B., Gupta, A., Karunakaran, S., Marjaninejad, A., Woo, R., Parvizi, J.
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Subjective states induced by intracranial electrical stimulation matches the cytoarchitectonic organization of the human insula.** *Brain stimulation*
Duong, A., Quabs, J., Kucyi, A., Lusk, Z., Buch, V., Caspers, S., Parvizi, J.
2023
- **Gaining Clarity on the Clarity Algorithm.** *Neurocritical care*
Parvizi, J., Gururangan, K., Knickerbocker, D., Kamoussi, B., Woo, R.
2023
- **Direct intracranial recordings in the human angular gyrus during arithmetic processing.** *Brain structure & function*
Pinheiro-Chagas, P., Chen, F., Sabetfakhri, N., Perry, C., Parvizi, J.
2022
- **Complex negative emotions induced by electrical stimulation of the human hypothalamus.** *Brain stimulation*
Parvizi, J., Veit, M. J., Barbosa, D. A., Kucyi, A., Perry, C., Parker, J. J., Shivacharan, R. S., Chen, F., Yih, J., Gross, J. J., Fisher, R., McNab, J. A., Falco-Walter, et al
2022
- **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
- **Temporal order of signal propagation within and across intrinsic brain networks.** *Proceedings of the National Academy of Sciences of the United States of America*
Veit, M. J., Kucyi, A., Hu, W., Zhang, C., Zhao, B., Guo, Z., Yang, B., Sava-Segal, C., Perry, C., Zhang, J., Zhang, K., Parvizi, J.
2021; 118 (48)
- **Overlapping Neuronal Population Responses in the Human Parietal Cortex during Visuospatial Attention and Arithmetic Processing** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Liu, N., Pinheiro-Chagas, P., Sava-Segal, C., Kastner, S., Chen, Q., Parvizi, J.
2021; 33 (12): 2548-2558
- **Altered sense of self during seizures in the posteromedial cortex.** *Proceedings of the National Academy of Sciences of the United States of America*
Parvizi, J., Braga, R. M., Kucyi, A., Veit, M. J., Pinheiro-Chagas, P., Perry, C., Sava-Segal, C., Zeineh, M., van Staaldin, E. K., Henderson, J. M., Markert, M.
2021; 118 (29)
- **Hippocampal ripples and their coordinated dialogue with the default mode network during recent and remote recollection.** *Neuron*
Norman, Y., Raccach, O., Liu, S., Parvizi, J., Malach, R.
2021
- **Intracranial electroencephalography reveals selective responses to cognitive stimuli in the periventricular heterotopias.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Akkol, S., Kucyi, A., Hu, W., Zhao, B., Zhang, C., Sava-Segal, C., Liu, S., Razavi, B., Zhang, J., Zhang, K., Parvizi, J.
2021
- **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

- **Monitoring the Burden of Seizures and Highly Epileptiform Patterns in Critical Care with a Novel Machine Learning Method.** *Neurocritical care*
Kamoussi, B., Karunakaran, S., Gururangan, K., Markert, M., Decker, B., Khankhanian, P., Mainardi, L., Quinn, J., Woo, R., Parvizi, J.
2020
- **Deep posteromedial cortical rhythm in dissociation.** *Nature*
Vesuna, S., Kauvar, I. V., Richman, E., Gore, F., Oskotsky, T., Sava-Segal, C., Luo, L., Malenka, R. C., Henderson, J. M., Nuyujukian, P., Parvizi, J., Deisseroth, K.
2020
- **Pupillary dynamics link spontaneous and task-evoked activations recorded directly from human insula.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Kucyi, A., Parvizi, J.
2020
- **Fast temporal dynamics and causal relevance of face processing in the human temporal cortex.** *Nature communications*
Schrouff, J., Raccach, O., Baek, S., Rangarajan, V., Salehi, S., Mourao-Miranda, J., Helili, Z., Daitch, A. L., Parvizi, J.
2020; 11 (1): 656
- **Electrophysiological dynamics of antagonistic brain networks reflect attentional fluctuations.** *Nature communications*
Kucyi, A., Daitch, A., Raccach, O., Zhao, B., Zhang, C., Esterman, M., Zeineh, M., Halpern, C. H., Zhang, K., Zhang, J., Parvizi, J.
2020; 11 (1): 325
- **Evaluating the Clinical Impact of Rapid Response Electroencephalography: The DECIDE Multicenter Prospective Observational Clinical Study.** *Critical care medicine*
Vespa, P. M., Olson, D. M., John, S. n., Hobbs, K. S., Gururangan, K. n., Nie, K. n., Desai, M. J., Markert, M. n., Parvizi, J. n., Bleck, T. P., Hirsch, L. J., Westover, M. B.
2020
- **Midline and Parasagittal Seizures are Rare in Adult Patients.** *Neurocritical care*
Gururangan, K., Parvizi, J.
2019
- **Brain Mechanisms of Arithmetic: A Crucial Role for Ventral Temporal Cortex**
Pinheiro-Chagas, P., Daitch, A., Parvizi, J., Dehaene, S.
SAGE PUBLICATIONS LTD.2019: 170–71
- **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. C. R., Parvizi, J.
2019; 14 (4): 339–51
- **Temporal Dynamics and Response Modulation across the Human Visual System in a Spatial Attention Task An ECoG Study** *JOURNAL OF NEUROSCIENCE*
Martin, A. B., Yang, X., Saalman, Y. B., Wang, L., Shestyuk, A., Lin, J. J., Parvizi, J., Knight, R. T., Kastner, S.
2019; 39 (2): 333-352
- **Electrical stimulation of the human claustrum.** *Epilepsy & behavior : E&B*
Bickel, S. n., Parvizi, J. n.
2019
- **A systematic study of stereotypy in epileptic seizures versus psychogenic seizure-like events** *EPILEPSY & BEHAVIOR*
Vogrig, A., Hsiang, J., Ng, J., Rolnick, J., Cheng, J., Parvizi, J.
2019; 90: 172-177
- **A systematic study of stereotypy in epileptic seizures versus psychogenic seizure-like events.** *Epilepsy & behavior : E&B*
Vogrig, A., Hsiang, J. C., Ng, J., Rolnick, J., Cheng, J., Parvizi, J.
2018; 90: 172–77
- **Brain Mechanisms of Arithmetic: A Crucial Role for Ventral Temporal Cortex** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Pinheiro-Chagas, P., Daitch, A., Parvizi, J., Dehaene, S.

2018; 30 (12): 1757–72

- **Direct Cortical Recordings Suggest Temporal Order of Task-Evoked Responses in Human Dorsal Attention and Default Networks** *JOURNAL OF NEUROSCIENCE*
Raccah, O., Daitch, A. L., Kucyi, A., Parvizi, J.
2018; 38 (48): 10305-10313
- **Temporal dynamics and response modulation across the human visual system in a spatial attention task: an ECoG study.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Martin, A. B., Yang, X., Saalman, Y. B., Wang, L., Shestyuk, A., Lin, J. J., Parvizi, J., Knight, R. T., Kastner, S.
2018
- **Changes in subjective experience elicited by direct stimulation of the human orbitofrontal cortex** *NEUROLOGY*
Fox, K. C. R., Yih, J., Raccah, O., Pendekanti, S. L., Limbach, L. E., Maydan, D. D., Parvizi, J.
2018; 91 (16): E1519-1527
- **Direct Cortical Recordings Suggest Temporal Order of Task Evoked Responses in Human Dorsal Attention and Default Networks.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Raccah, O., Daitch, A. L., Kucyi, A., Parvizi, J.
2018
- **Rapid Bedside Evaluation of Seizures in the ICU by Listening to the Sound of Brainwaves: A Prospective Observational Clinical Trial of Ceribell's Brain Stethoscope Function** *NEUROCRITICAL CARE*
Hobbs, K., Krishnamohan, P., Legault, C., Goodman, S., Parvizi, J., Gururangan, K., Mlynash, M.
2018; 29 (2): 302–12
- **Changes in subjective experience elicited by direct stimulation of the human orbitofrontal cortex.** *Neurology*
Fox, K. C., Yih, J., Raccah, O., Pendekanti, S. L., Limbach, L. E., Maydan, D. D., Parvizi, J.
2018
- **Neuronal Population Responses in the Human Ventral Temporal and Lateral Parietal Cortex during Arithmetic Processing with Digits and Number Words** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Baek, S., Daitch, A. L., Pinheiro-Chagas, P., Parvizi, J.
2018; 30 (9): 1315-1322
- **Neural Mechanisms of Sustained Attention Are Rhythmic** *NEURON*
Helfrich, R. F., Fiebelkorn, I. C., Szczepanski, S. M., Lin, J. J., Parvizi, J., Knight, R. T., Kastner, S.
2018; 99 (4): 854–+
- **Reappraising faces: effects on accountability appraisals, self-reported valence, and pupil diameter.** *Cognition & emotion*
Yih, J., Sha, H., Beam, D. E., Parvizi, J., Gross, J. J.
2018: 1–10
- **Neuronal Population Responses in the Human Ventral Temporal and Lateral Parietal Cortex during Arithmetic Processing with Digits and Number Words.** *Journal of cognitive neuroscience*
Baek, S., Daitch, A. L., Pinheiro-Chagas, P., Parvizi, J.
2018: 1–8
- **Rapid Bedside Evaluation of Seizures in the ICU by Listening to the Sound of Brainwaves: A Prospective Observational Clinical Trial of Ceribell's Brain Stethoscope Function.** *Neurocritical care*
Hobbs, K., Krishnamohan, P., Legault, C., Goodman, S., Parvizi, J., Gururangan, K., Mlynash, M.
2018
- **High-level visual manifestations of epileptic seizures originating from the medial parietal cortex.** *Epileptic disorders : international epilepsy journal with videotape*
Pendekanti, S., Baek, S., Kilinc, Y. B., Parvizi, J.
2018
- **High-level visual manifestations of epileptic seizures originating from the medial parietal cortex** *EPILEPTIC DISORDERS*
Pendekanti, S., Baek, S., Kilinc, Y., Parvizi, J.
2018; 20 (3): 200-203

- **Odor-elicited Oscillations in Human Piriform Cortex**
Jiang, H., Schuele, S., Rosenow, J., Parvizi, J., Tao, J., Wu, S., Gottfried, J.
OXFORD UNIV PRESS.2018: E66
- **Spatial and temporal heterogeneity of neural responses in human posteromedial cortex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Daitch, A. L., Parvizi, J.
2018; 115 (18): 4785–90
- **Intracranial Electrophysiology Reveals Reproducible Intrinsic Functional Connectivity within Human Brain Networks** *JOURNAL OF NEUROSCIENCE*
Kucyi, A., Schrouff, J., Bickel, S., Foster, B. L., Shine, J. M., Parvizi, J.
2018; 38 (17): 4230–42
- **Diagnostic utility of eight-channel EEG for detecting generalized or hemispheric seizures and rhythmic periodic patterns.** *Clinical neurophysiology practice*
Gururangan, K., Razavi, B., Parvizi, J.
2018; 3: 65-73
- **Detecting silent seizures by their sound.** *Epilepsia*
Parvizi, J., Gururangan, K., Razavi, B., Chafe, C.
2018
- **Memory, Numbers, and Action Decision in Human Posterior Parietal Cortex** *NEURON*
Parvizi, J., Wagner, A. D.
2018; 97 (1): 7–10
- **Detecting silent seizures by their sound** *Epilepsia*
Parvizi, J., Gururangan, K., Razavi, B., Chafe, C.
2018; 59 (4): 877-884
- **Diagnostic utility of eight-channel EEG for detecting generalized seizures** *Clinical Neurophysiology Practice*
Gururangan, K., Razavi, B., Parvizi, J.
2018; 3
- **Distinct Patterns of Temporal and Directional Connectivity among Intrinsic Networks in the Human Brain** *JOURNAL OF NEUROSCIENCE*
Shine, J. M., Kucyi, A., Foster, B. L., Bickel, S., Wang, D., Liu, H., Poldrack, R. A., Hsieh, L., Hsiang, J., Parvizi, J.
2017; 37 (40): 9667–74
- **Josef Parvizi** *NEURON*
Parvizi, J.
2017; 95 (1): 12–13
- **Spatiotemporal dynamics of word retrieval in speech production revealed by cortical high-frequency band activity.** *Proceedings of the National Academy of Sciences of the United States of America*
Riès, S. K., Dhillon, R. K., Clarke, A., King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Lin, J. J., Parvizi, J., Crone, et al
2017; 114 (23): E4530-E4538
- **Theta Oscillations Rapidly Convey Odor-Specific Content in Human Piriform Cortex** *NEURON*
Jiang, H., Schuele, S., Rosenow, J., Zelano, C., Parvizi, J., Tao, J. X., Wu, S., Gottfried, J. A.
2017; 94 (1): 207-?
- **Direct cortical stimulation of human posteromedial cortex.** *Neurology*
Foster, B. L., Parvizi, J.
2017; 88 (7): 685-691
- **Mirroring in the Human Brain: Deciphering the Spatial-Temporal Patterns of the Human Mirror Neuron System.** *Cerebral cortex*
Perry, A., Stiso, J., Chang, E. F., Lin, J. J., Parvizi, J., Knight, R. T.
2017

- **Electrophysiological Responses in the Ventral Temporal Cortex During Reading of Numerals and Calculation** *CEREBRAL CORTEX*
Hermes, D., Rangarajan, V., Foster, B. L., King, J., Kasikci, I., Miller, K. J., Parvizi, J.
2017; 27 (1): 567-575
- **Linking Electrical Stimulation of Human Primary Visual Cortex, Size of Affected Cortical Area, Neuronal Responses, and Subjective Experience** *NEURON*
Winawer, J., Parvizi, J.
2016; 92 (6): 1213-1219
- **Mapping human temporal and parietal neuronal population activity and functional coupling during mathematical cognition.** *Proceedings of the National Academy of Sciences of the United States of America*
Daitch, A. L., Foster, B. L., Schrouff, J., Rangarajan, V., Kasikçi, I., Gattas, S., Parvizi, J.
2016
- **Direct brain recordings reveal hippocampal rhythm underpinnings of language processing** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Piai, V., Anderson, K. L., Lin, J. J., Dewar, C., Parvizi, J., Dronkers, N. F., Knight, R. T.
2016; 113 (40): 11366-11371
- **Utility of electroencephalography: Experience from a U.S. tertiary care medical center.** *Clinical neurophysiology*
Gururangan, K., Razavi, B., Parvizi, J.
2016; 127 (10): 3335-3340
- **Differential Processing of Consonance and Dissonance within the Human Superior Temporal Gyrus** *FRONTIERS IN HUMAN NEUROSCIENCE*
Foo, F., King-Stephens, D., Weber, P., Laxer, K., Parvizi, J., Knight, R. T.
2016; 10
- **Frontal and motor cortex contributions to response inhibition: evidence from electrocorticography** *JOURNAL OF NEUROPHYSIOLOGY*
Fonken, Y. M., Rieger, J. W., Tzvi, E., Crone, N. E., Chang, E., Parvizi, J., Knight, R. T., Kraemer, U. M.
2016; 115 (4): 2224-2236
- **Functional asymmetry between the left and right human fusiform gyrus explored through electrical brain stimulation.** *Neuropsychologia*
Rangarajan, V., Parvizi, J.
2016; 83: 29-36
- **Decoding intracranial EEG data with multiple kernel learning method.** *Journal of neuroscience methods*
Schrouff, J., Mourão-Miranda, J., Phillips, C., Parvizi, J.
2016; 261: 19-28
- **Electrophysiological Responses in the Ventral Temporal Cortex During Reading of Numerals and Calculation.** *Cerebral cortex*
Hermes, D., Rangarajan, V., Foster, B. L., King, J., Kasikci, I., Miller, K. J., Parvizi, J.
2015
- **Electrical Stimulation of the Left and Right Human Fusiform Gyrus Causes Different Effects in Conscious Face Perception** *JOURNAL OF NEUROSCIENCE*
Rangarajan, V., Hermes, D., Foster, B. L., Weiner, K. S., Jacques, C., Grill-Spector, K., Parvizi, J.
2014; 34 (38): 12828-12836
- **Electrical stimulation of the left and right human fusiform gyrus causes different effects in conscious face perception.** *journal of neuroscience*
Rangarajan, V., Hermes, D., Foster, B. L., Weiner, K. S., Jacques, C., Grill-Spector, K., Parvizi, J.
2014; 34 (38): 12828-12836
- **Dynamic changes in phase-amplitude coupling facilitate spatial attention control in fronto-parietal cortex.** *PLoS biology*
Szczepanski, S. M., Crone, N. E., Kuperman, R. A., Auguste, K. I., Parvizi, J., Knight, R. T.
2014; 12 (8)
- **Decoding memory processing from electro-corticography in human posteromedial cortex** *4th International Workshop on Pattern Recognition in Neuroimaging (PRNI)*
Schrouff, J., Foster, B., Rangarajan, V., Phillips, C., Mourao-Miranda, J., Parvizi, J.

IEEE.2014

- **Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging** *NATURE MEDICINE*
Mezer, A., Yeatman, J. D., Stikov, N., Kay, K. N., Cho, N., Dougherty, R. F., Perry, M. L., Parvizi, J., Hua, L. H., Butts-Pauly, K., Wandell, B. A.
2013; 19 (12): 1667-1672
- **Proceedings of the Fourth International Workshop on Advances in Electroconvulsive Therapy** *EPILEPSY & BEHAVIOR*
Ritaccio, A., Brunner, P., Crone, N. E., Gunduz, A., Hirsch, L. J., Kanwisher, N., Litt, B., Miller, K., Moran, D., Parvizi, J., Ramsey, N., Richner, T. J., Tandon, et al
2013; 29 (2): 259-268
- **Human hippocampal increases in low-frequency power during associative prediction violations.** *Neuropsychologia*
Chen, J., Dastjerdi, M., Foster, B. L., LaRocque, K. F., Rauschecker, A. M., Parvizi, J., Wagner, A. D.
2013; 51 (12): 2344-2351
- **Asynchronous Broadband Signals Are the Principal Source of the BOLD Response in Human Visual Cortex** *CURRENT BIOLOGY*
Winawer, J., Kay, K. N., Foster, B. L., Rauschecker, A. M., Parvizi, J., Wandell, B. A.
2013; 23 (13): 1145-1153
- **Human Retrosplenial Cortex Displays Transient Theta Phase Locking with Medial Temporal Cortex Prior to Activation during Autobiographical Memory Retrieval.** *Journal of neuroscience*
Foster, B. L., Kaveh, A., Dastjerdi, M., Miller, K. J., Parvizi, J.
2013; 33 (25): 10439-10446
- **A Brain Area for Visual Numerals** *JOURNAL OF NEUROSCIENCE*
Shum, J., Hermes, D., Foster, B. L., Dastjerdi, M., Rangarajan, V., Winawer, J., Miller, K. J., Parvizi, J.
2013; 33 (16): 6709-6715
- **Hand posture classification using electroconvulsive therapy signals in the gamma band over human sensorimotor brain areas.** *Journal of neural engineering*
Chestek, C. A., Gilja, V., Blabe, C. H., Foster, B. L., Shenoy, K. V., Parvizi, J., Henderson, J. M.
2013; 10 (2): 026002-?
- **Hand posture classification using electroconvulsive therapy signals in the gamma band over human sensorimotor brain areas** *JOURNAL OF NEURAL ENGINEERING*
Chestek, C. A., Gilja, V., Blabe, C. H., Foster, B. L., Shenoy, K. V., Parvizi, J., Henderson, J. M.
2013; 10 (2)
- **Numerical processing in the human parietal cortex during experimental and natural conditions.** *Nature communications*
Dastjerdi, M., Ozker, M., Foster, B. L., Rangarajan, V., Parvizi, J.
2013; 4: 2528-?
- **CROSS-FREQUENCY DYNAMICS IN HUMAN PARIETAL CORTEX DURING RECOGNITION MEMORY DECISIONS** *20th Annual Meeting of the Cognitive-Neuroscience-Society*
Gonzalez, A., Hutchinson, J. B., Uncapher, M. R., Foster, B. L., Rangarajan, V., Parvizi, J., Wagner, A. D.
MIT PRESS.2013: 109-109
- **Proceedings of the Third International Workshop on Advances in Electroconvulsive Therapy** *EPILEPSY & BEHAVIOR*
Ritaccio, A., Beauchamp, M., Bosman, C., Brunner, P., Chang, E., Crone, N., Gunduz, A., Gupta, D., Knight, R., Leuthardt, E., Litt, B., Moran, D., Ojemann, et al
2012; 25 (4): 605-613
- **Position sensitivity in the visual word form area** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rauschecker, A. M., Bowen, R. F., Parvizi, J., Wandell, B. A.
2012; 109 (24): E1568-E1577
- **Resting oscillations and cross-frequency coupling in the human posteromedial cortex** *NEUROIMAGE*
Foster, B. L., Parvizi, J.
2012; 60 (1): 384-391

- **Functional MRI of sleep spindles and K-complexes** *CLINICAL NEUROPHYSIOLOGY*
Caporro, M., Haneef, Z., Yeh, H. J., Lenartowicz, A., Buttinelli, C., Parvizi, J., Stern, J. M.
2012; 123 (2): 303-309
- **Disinhibition: More than a misnomer** *SOCIAL NEUROSCIENCE*
Parvizi, J.
2012; 7 (3): 311-316
- **Proceedings of the Second International Workshop on Advances in Electrocorticography** *EPILEPSY & BEHAVIOR*
Ritaccio, A., Boatman-Reich, D., Brunner, P., Cervenka, M. C., Cole, A. J., Crone, N., Duckrow, R., Korzeniewska, A., Litt, B., Miller, K. J., Moran, D. W., Parvizi, J., Viventi, et al
2011; 22 (4): 641-650
- **Problem of signal contamination in interhemispheric dual-sided subdural electrodes** *EPILEPSIA*
Nune, G., Winawer, J., Rauschecker, A. M., Dastjerdi, M., Foster, B. L., Wandell, B., Parvizi, J.
2011; 52 (11): E176-E180
- **Gelastic epilepsy and hypothalamic hamartomas: neuroanatomical analysis of brain lesions in 100 patients** *BRAIN*
Parvizi, J., Le, S., Foster, B. L., Bourgeois, B., Riviello, J. J., Prenger, E., Saper, C., Kerrigan, J. F.
2011; 134: 2960-2968
- **Disinhibition: More than a misnomer.** *Social neuroscience*
Parvizi, J.
2011
- **Illusions of Visual Motion Elicited by Electrical Stimulation of Human MT Complex** *PLOS ONE*
Rauschecker, A. M., Dastjerdi, M., Weiner, K. S., Witthoft, N., Chen, J., Selimbeyoglu, A., Parvizi, J.
2011; 6 (7)
- **Functional imaging of sleep vertex sharp transients** *CLINICAL NEUROPHYSIOLOGY*
Stern, J. M., Caporro, M., Haneef, Z., Yeh, H. J., Buttinelli, C., Lenartowicz, A., Mumford, J. A., Parvizi, J., Poldrack, R. A.
2011; 122 (7): 1382-1386
- **Automatisms: Bridging clinical neurology with criminal law** *EPILEPSY & BEHAVIOR*
Rolnick, J., Parvizi, J.
2011; 20 (3): 423-427
- **Differential electrophysiological response during rest, self-referential, and non-self-referential tasks in human posteromedial cortex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dastjerdi, M., Foster, B. L., Nasrullah, S., Rauschecker, A. M., Dougherty, R. F., Townsend, J. D., Chang, C., Greicius, M. D., Menon, V., Kennedy, D. P., Parvizi, J.
2011; 108 (7): 3023-3028
- **Shifts in gamma phase-amplitude coupling frequency from theta to alpha over posterior cortex during visual tasks** *FRONTIERS IN HUMAN NEUROSCIENCE*
Voytek, B., Canolty, R. T., Shestyuk, A., Crone, N. E., Parvizi, J., Knight, R. T.
2010; 4
- **Electrical stimulation of the human brain: perceptual and behavioral phenomena reported in the old and new literature** *FRONTIERS IN HUMAN NEUROSCIENCE*
Selimbeyoglu, A., Parvizi, J.
2010; 4
- **Thalamic projections to the posteromedial cortex in the macaque** *JOURNAL OF COMPARATIVE NEUROLOGY*
Buckwalter, J. A., Parvizi, J., Morecraft, R. J., Van Hoesen, G. W.
2008; 507 (5): 1709-1733
- **Neural connections of the posteromedial cortex in the macaque** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Parvizi, J., Van Hoesen, G. W., Buckwalter, J., Damasio, A.

2006; 103 (5): 1563-1568

● **Differential distribution of calbindin D28K and parvalbumin among functionally distinctive sets of structures in the macaque brainstem** *JOURNAL OF COMPARATIVE NEUROLOGY*

Parvizi, J., DAMASIO, A. R.

2003; 462 (2): 153-167

● **Neuroanatomical correlates of brainstem coma** *BRAIN*

Parvizi, J., DAMASIO, A. R.

2003; 126: 1524-1536

● **Pathological laughter and crying - A link to cerebellum** *BRAIN*

Parvizi, J., Anderson, S. W., Martin, C. O., Damasio, H., DAMASIO, A. R.

2001; 124: 1708-1719

● **Consciousness and the brainstem** *COGNITION*

Parvizi, J., Damasio, A.

2001; 79 (1-2): 135-159

● **The selective vulnerability of brainstem nuclei to Alzheimer's disease** *ANNALS OF NEUROLOGY*

Parvizi, J., Van Hoesen, G. W., Damasio, A.

2001; 49 (1): 53-66

● **Subcortical and cortical brain activity during the feeling of self-generated emotions** *NATURE NEUROSCIENCE*

DAMASIO, A. R., Grabowski, T. J., Bechara, A., Damasio, H., Ponto, L. L., Parvizi, J., Hichwa, R. D.

2000; 3 (10): 1049-1056

● **Selective pathological changes of the periaqueductal gray matter in Alzheimer's disease** *ANNALS OF NEUROLOGY*

Parvizi, J., Van Hoesen, G. W., Damasio, A.

2000; 48 (3): 344-353

● **Orbitofrontal cortex pathology in Alzheimer's disease** *CEREBRAL CORTEX*

Van Hoesen, G. W., Parvizi, J., Chu, C. C.

2000; 10 (3): 243-251