



Jaimie Henderson, MD

John and Jene Blume - Robert and Ruth Halperin Professor, Professor of Neurosurgery and, by courtesy, of Neurology and Neurological Sciences

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Functional Neurosurgery
- Movement Disorders
- Neurological Surgery
- Deep Brain Stimulation
- Neuromodulation
- High Intensity Focused Ultrasound Therapy

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurosurgery
- Professor - University Medical Line (By courtesy), Neurology and Neurological Sciences
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Stereotactic and Functional Neurosurgery, (2004- present)

PROFESSIONAL EDUCATION

- Medical Education: Rush University Medical College (1988) IL
- Residency: Saint Louis University School of Medicine (1995) MO
- Fellowship: Loma Linda University Neurosurgery Training Programs (1995) CA
- Internship: Rush University Medical Center General Surgery Residency (1989) IL
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (2000)

- M.D., Rush Medical College , Medicine (1988)
- B.A., Washington University, St. Louis , Biology (1984)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests encompass several areas of stereotactic and functional neurosurgery, including frameless stereotactic approaches for therapy delivery to deep brain nuclei; cortical physiology and its relationship to normal and pathological movement; brain-computer interfaces; and the development of novel neuromodulatory techniques for the treatment of movement disorders, epilepsy, pain, and other neurological diseases.

CLINICAL TRIALS

- BrainGate2, Recruiting
- Coordinated Reset Spinal Cord Stimulation, Not Specified

Teaching

STANFORD ADVISEES

Scholarly Concentration Director

Loran Baxter Mercado

Postdoctoral Faculty Sponsor

Erin Kunz, Sasi Madugula, Alessandro Marin Vargas, Yizi Zhang

Orals Evaluator

Chaofei Fan

Doctoral Dissertation Advisor (NonAC)

Chaofei Fan

Doctoral Dissertation Co-Advisor (NonAC)

Benyamin Abramovich Krasa, Alisa Levin, Ryan Wang

Doctoral Dissertation Reader (NonAC)

Deniz Bingul

Doctoral (Program)

Chaofei Fan

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Inner speech in motor cortex and implications for speech neuroprostheses.** *Cell*
Kunz, E. M., Abramovich Krasa, B., Kamdar, F., Avansino, D. T., Hahn, N., Yoon, S., Singh, A., Nason-Tomaszewski, S. R., Card, N. S., Jude, J. J., Jacques, B. G., Bechefskey, P. H., Iacobacci, et al

2025

- **A high-performance brain-computer interface for finger decoding and quadcopter game control in an individual with paralysis.** *Nature medicine*
Willsey, M. S., Shah, N. P., Avansino, D. T., Hahn, N. V., Jamiolkowski, R. M., Kamdar, F. B., Hochberg, L. R., Willett, F. R., Henderson, J. M.
2025
- **An Accurate and Rapidly Calibrating Speech Neuroprosthesis.** *The New England journal of medicine*
Card, N. S., Wairagkar, M., Iacobacci, C., Hou, X., Singer-Clark, T., Willett, F. R., Kunz, E. M., Fan, C., Vahdati Nia, M., Deo, D. R., Srinivasan, A., Choi, E. Y., Glasser, et al
2024; 391 (7): 609-618
- **Thalamic deep brain stimulation in traumatic brain injury: a phase 1, randomized feasibility study.** *Nature medicine*
Schiff, N. D., Giacino, J. T., Butson, C. R., Choi, E. Y., Baker, J. L., O'Sullivan, K. P., Janson, A. P., Bergin, M., Bronte-Stewart, H. M., Chua, J., DeGeorge, L., Dikmen, S., Fogarty, et al
2023
- **A high-performance speech neuroprosthesis.** *Nature*
Willett, F. R., Kunz, E. M., Fan, C., Avansino, D. T., Wilson, G. H., Choi, E. Y., Kamdar, F., Glasser, M. F., Hochberg, L. R., Druckmann, S., Shenoy, K. V., Henderson, J. M.
2023
- **High-performance brain-to-text communication via handwriting.** *Nature*
Willett, F. R., Avansino, D. T., Hochberg, L. R., Henderson, J. M., Shenoy, K. V.
2021; 593 (7858): 249–54
- **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
- **Hand Knob Area of Premotor Cortex Represents the Whole Body in a Compositional Way.** *Cell*
Willett, F. R., Deo, D. R., Avansino, D. T., Rezaii, P., Hochberg, L. R., Henderson, J. M., Shenoy, K. V.
2020
- **High performance communication by people with paralysis using an intracortical brain-computer interface.** *eLife*
Pandarinath, C., Nuyujukian, P., Blabe, C. H., Sorice, B. L., Saab, J., Willett, F. R., Hochberg, L. R., Shenoy, K. V., Henderson, J. M.
2017; 6
- **Clinical translation of a high-performance neural prosthesis.** *Nature medicine*
Gilja, V., Pandarinath, C., Blabe, C. H., Nuyujukian, P., Simeral, J. D., Sarma, A. A., Sorice, B. L., Perge, J. A., Jarosiewicz, B., Hochberg, L. R., Shenoy, K. V., Henderson, J. M.
2015; 21 (10): 1142-1145
- **Long-term unsupervised recalibration of cursor-based intracortical brain-computer interfaces using a hidden Markov model.** *Nature biomedical engineering*
Wilson, G. H., Stein, E. A., Kamdar, F., Avansino, D. T., Pun, T. K., Gross, R., Hosman, T., Singer-Clark, T., Kapitonava, A., Hochberg, L. R., Simeral, J. D., Shenoy, K. V., Druckmann, et al
2025
- **Seizure outcomes of laser interstitial thermal therapy (LITT) for drug-resistant extratemporal epilepsy.** *Epileptic disorders : international epilepsy journal with videotape*
Touponse, G. C., Wang, A. R., Buch, V. P., Purger, D. A., Halpern, C. H., Henderson, J. M., Falco-Walter, J., Le, S.
2025
- **Improved interpretability in LFADS models using a learned, context-dependent per-trial bias.** *bioRxiv : the preprint server for biology*
Shah, N. P., Krasa, B. A., Kunz, E., Hahn, N., Kamdar, F., Avansino, D., Hochberg, L. R., Henderson, J. M., Sussillo, D.
2025
- **Gesture encoding in human left precentral gyrus neuronal ensembles.** *Communications biology*
Vargas-Irwin, C. E., Hosman, T., Gusman, J. T., Pun, T. K., Simeral, J. D., Singer-Clark, T., Kapitonava, A., Nicolas, C., Shah, N. P., Avansino, D. T., Kamdar, F., Williams, Z. M., Henderson, et al

2025; 8 (1): 1315

- **Error encoding in human speech motor cortex.** *bioRxiv : the preprint server for biology*
Hou, X., Iacobacci, C., Card, N. S., Wairagkar, M., Singer-Clark, T., Kunz, E. M., Fan, C., Kamdar, F., Hahn, N., Hochberg, L. R., Henderson, J. M., Willett, F. R., Brandman, et al
2025
- **Pseudo-linear summation explains neural geometry of multi-finger movements in human premotor cortex.** *Nature communications*
Shah, N. P., Avansino, D., Kamdar, F., Nicolas, C., Kapitonava, A., Vargas-Irwin, C., Hochberg, L. R., Pandarinath, C., Shenoy, K. V., Willett, F. R., Henderson, J. M.
2025; 16 (1): 5008
- **Conserved brain-wide emergence of emotional response from sensory experience in humans and mice.** *Science (New York, N.Y.)*
Kauvar, I., Richman, E. B., Liu, T. X., Li, C., Vesuna, S., Chibukhchyan, A., Yamada, L., Fogarty, A., Solomon, E., Choi, E. Y., Mortazavi, L., Chau Loo Kung, G., Mukunda, et al
2025; 388 (6750): eadt3971
- **Multi-gesture drag-and-drop decoding in a 2D iBCI control task.** *Journal of neural engineering*
Gusman, J. T., Hosman, T., Crawford, R., Singer-Clark, T., Kapitonava, A., Kelemen, J., Hahn, N., Henderson, J. M., Hochberg, L., Simeral, J., Vargas-Irwin, C.
2025
- **"Quality over quantity:" smaller, targeted lesions optimize quality of life outcomes after MR-guided focused ultrasound thalamotomy for essential tremor.** *Frontiers in neurology*
Buch, V. P., Purger, D., Datta, A., Wang, A., Barbosa, D., Chodakiewitz, Y., Lev-Tov, L., Li, C., Halpern, C., Henderson, J., McNab, J. A., Bitton, R. R., Ghanouni, et al
2024; 15: 1450699
- **Measuring instability in chronic human intracortical neural recordings towards stable, long-term brain-computer interfaces.** *Communications biology*
Pun, T. K., Khoshnevis, M., Hosman, T., Wilson, G. H., Kapitonava, A., Kamdar, F., Henderson, J. M., Simeral, J. D., Vargas-Irwin, C. E., Harrison, M. T., Hochberg, L. R.
2024; 7 (1): 1363
- **A flexible intracortical brain-computer interface for typing using finger movements.** *bioRxiv : the preprint server for biology*
Shah, N. P., Willsey, M. S., Hahn, N., Kamdar, F., Avansino, D. T., Fan, C., Hochberg, L. R., Willett, F. R., Henderson, J. M.
2024
- **An accurate and rapidly calibrating speech neuroprosthesis.** *medRxiv : the preprint server for health sciences*
Card, N. S., Wairagkar, M., Iacobacci, C., Hou, X., Singer-Clark, T., Willett, F. R., Kunz, E. M., Fan, C., Nia, M. V., Deo, D. R., Srinivasan, A., Choi, E. Y., Glasser, et al
2024
- **Measuring instability in chronic human intracortical neural recordings towards stable, long-term brain-computer interfaces.** *bioRxiv : the preprint server for biology*
Pun, T. K., Khoshnevis, M., Hosman, T., Wilson, G. H., Kapitonava, A., Kamdar, F., Henderson, J. M., Simeral, J. D., Vargas-Irwin, C. E., Harrison, M. T., Hochberg, L. R.
2024
- **A real-time, high-performance brain-computer interface for finger decoding and quadcopter control.** *bioRxiv : the preprint server for biology*
Willsey, M. S., Shah, N. P., Avansino, D. T., Hahn, N. V., Jamiolkowski, R. M., Kamdar, F. B., Hochberg, L. R., Willett, F. R., Henderson, J. M.
2024
- **Brain control of bimanual movement enabled by recurrent neural networks.** *Scientific reports*
Deo, D. R., Willett, F. R., Avansino, D. T., Hochberg, L. R., Henderson, J. M., Shenoy, K. V.
2024; 14 (1): 1598
- **An individualized tractography pipeline for the nucleus basalis of Meynert lateral tract.** *Imaging neuroscience (Cambridge, Mass.)*
Crockett, R. A., Wilkins, K. B., Zeineh, M. M., McNab, J. A., Henderson, J. M., Buch, V. P., Brontë-Stewart, H. M.
2024; 2

- **Towards a Quantitative Analysis of Coarticulation with a Phoneme-to-Articulatory Model**
Fan, C., Henderson, J. M., Manning, C., Willett, F. R., *Int Speech Commun Assoc ISCA-INT SPEECH COMMUNICATION ASSOC.2024: 3095-3099*
- **An individualized tractography pipeline for the nucleus basalis of Meynert lateral tract** *Imaging Neuroscience*
Crockett, R. A., Wilkins, K. B., Zeineh, M. M., McNab, J. A., Henderson, J. M., Buch, V. P., Brontë-Stewart, H. M.
2024: 1–13.
- **Plug-and-Play Stability for Intracortical Brain-Computer Interfaces: A One-Year Demonstration of Seamless Brain-to-Text Communication.** *Advances in neural information processing systems*
Fan, C., Hahn, N., Kamdar, F., Avansino, D., Wilson, G. H., Hochberg, L., Shenoy, K. V., Henderson, J. M., Willett, F. R.
2023; 36: 42258-42270
- **Stimulation of the thalamus for arousal restoral in temporal lobe epilepsy (START) clinical trial**
Blumenfeld, H., Yadav, T., Zhang, Z., Benjamin, C., DaCosta, K., Christison-Lagay, K., Damisah, E., Derry, A., Gummadavelli, A., Hirsch, L., Oriol, M., Litvinov, B., Spencer, et al
WILEY.2023: 52
- **Subject and Family Perspectives from the Central Thalamic Deep Brain Stimulation Trial for Traumatic Brain Injury: Part II.** *Cambridge quarterly of healthcare ethics : CQ : the international journal of healthcare ethics committees*
Fins, J. J., Wright, M. S., Shulman, K. S., Henderson, J. M., Schiff, N. D.
2023: 1-24
- **Pseudo-linear Summation explains Neural Geometry of Multi-finger Movements in Human Premotor Cortex.** *bioRxiv : the preprint server for biology*
Shah, N. P., Avansino, D., Kamdar, F., Nicolas, C., Kapitonava, A., Vargas-Irwin, C., Hochberg, L., Pandarinath, C., Shenoy, K., Willett, F. R., Henderson, J.
2023
- **An Individualized Tractography Pipeline for the Nucleus Basalis of Meynert Lateral Tract.** *medRxiv : the preprint server for health sciences*
Crockett, R. A., Wilkins, K. B., Zeineh, M. M., McNab, J. A., Henderson, J. M., Buch, V. P., Brontë-Stewart, H. M.
2023
- **Translating deep learning to neuroprosthetic control.** *bioRxiv : the preprint server for biology*
Deo, D. R., Willett, F. R., Avansino, D. T., Hochberg, L. R., Henderson, J. M., Shenoy, K. V.
2023
- **A brain-computer typing interface using finger movements.** *International IEEE/EMBS Conference on Neural Engineering : [proceedings]. International IEEE EMBS Conference on Neural Engineering*
Shah, N. P., Willsey, M. S., Hahn, N., Kamdar, F., Avansino, D. T., Hochberg, L. R., Shenoy, K. V., Henderson, J. M.
2023; 2023
- **Long-term unsupervised recalibration of cursor BCIs.** *bioRxiv : the preprint server for biology*
Wilson, G. H., Willett, F. R., Stein, E. A., Kamdar, F., Avansino, D. T., Hochberg, L. R., Shenoy, K. V., Druckmann, S., Henderson, J. M.
2023
- **Interim Safety Profile From the Feasibility Study of the BrainGate Neural Interface System.** *Neurology*
Rubin, D. B., Ajiboye, A. B., Barefoot, L., Bowker, M., Cash, S. S., Chen, D., Donoghue, J. P., Eskandar, E. N., Friehs, G., Grant, C., Henderson, J. M., Kirsch, R. F., Marujo, et al
2023
- **Plug-and-Play Stability for Intracortical Brain-Computer Interfaces: A One-Year Demonstration of Seamless Brain-to-Text Communication**
Fan, C., Hahn, N., Kamdar, F., Avansino, D., Wilson, G. H., Hochberg, L., Shenoy, K. V., Henderson, J. M., Willett, F. R.
edited by Oh, A., Neumann, T., Globerson, A., Saenko, K., Hardt, M., Levine, S.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2023
- **A brain-computer typing interface using finger movements**
Shah, N. P., Willsey, M. S., Hahn, N., Kamdar, F., Avansino, D. T., Hochberg, L. R., Shenoy, K. V., Henderson, J. M., IEEE
IEEE.2023

- **Subject and Family Perspectives from the Central Thalamic Deep Brain Stimulation for Traumatic Brain Injury Study: Part I.** *Cambridge quarterly of healthcare ethics : CQ : the international journal of healthcare ethics committees*
Fins, J. J., Wright, M. S., Henderson, J. M., Schiff, N. D.
2022; 31 (4): 419-443
- **Changes In The Cerebello-thalamo-cortical Network After MR-guided Focused Ultrasound Thalamotomy.** *Brain connectivity*
Thaler, C., Tian, Q., Wintermark, M., Ghanouni, P., Halpern, C., Henderson, J., Airan, R., Zeineh, M., Goubran, M., Leuze, C., Fiehler, J., Butts Pauly, K., McNab, et al
2022
- **A Retrospective Cohort Study of Implantable Pulse Generator Surgical Site Infections After Deep Brain Stimulation Surgery With an Antibacterial Envelope.** *Neuromodulation : journal of the International Neuromodulation Society*
Sayadi, J. J., Rodrigues, A. J., Patel, N. A., Ayer, A., Henderson, J. M.
2022
- **Next-generation BCIs: Brain-to-text Communication via Attempted Handwriting**
Willett, F. R., Avansino, D. T., Hochberg, L. R., Henderson, J. M., Shenoy, K. V., IEEE
IEEE.2022
- **Proceedings of the 10th annual deep brain stimulation think tank: Advances in cutting edge technologies, artificial intelligence, neuromodulation, neuroethics, interventional psychiatry, and women in neuromodulation.** *Frontiers in human neuroscience*
Wong, J. K., Mayberg, H. S., Wang, D. D., Richardson, R. M., Halpern, C. H., Krinke, L., Arlotti, M., Rossi, L., Priori, A., Marceglia, S., Gilron, R., Cavanagh, J. F., Judy, et al
2022; 16: 1084782
- **Proceedings of the Ninth Annual Deep Brain Stimulation Think Tank: Advances in Cutting Edge Technologies, Artificial Intelligence, Neuromodulation, Neuroethics, Pain, Interventional Psychiatry, Epilepsy, and Traumatic Brain Injury.** *Frontiers in human neuroscience*
Wong, J. K., Deuschl, G., Wolke, R., Bergman, H., Muthuraman, M., Groppa, S., Sheth, S. A., Bronte-Stewart, H. M., Wilkins, K. B., Petrucci, M. N., Lambert, E., Kehnemouyi, Y., Starr, et al
2022; 16: 813387
- **Experience and consensus on stimulation of the anterior nucleus of thalamus for epilepsy.** *Epilepsia*
Fasano, A., Eliashiv, D., Herman, S. T., Lundstrom, B. N., Polnerow, D., Henderson, J. M., Fisher, R. S.
2021
- **Lack of progression of beta dynamics after long-term subthalamic neurostimulation.** *Annals of clinical and translational neurology*
Anderson, R. W., Wilkins, K. B., Parker, J. E., Petrucci, M. N., Kehnemouyi, Y., Neuville, R. S., Cassini, D., Trager, M. H., Koop, M. M., Velisar, A., Blumenfeld, Z., Quinn, E. J., Henderson, et al
2021
- **Effects of Peripheral Haptic Feedback on Intracortical Brain-Computer Interface Control and Associated Sensory Responses in Motor Cortex** *IEEE TRANSACTIONS ON HAPTICS*
Deo, D. R., Rezaei, P., Hochberg, L. R., Okamura, A. M., Shenoy, K., Henderson, J. M.
2021; 14 (4): 762-775
- **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 Staalduinen, E. K., Henderson, J. M., Markert, M.
2021; 118 (29)
- **Home Use of a Percutaneous Wireless Intracortical Brain-Computer Interface by Individuals With Tetraplegia** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
Simeral, J. D., Hosman, T., Saab, J., Flesher, S. N., Vilela, M., Franco, B., Kelemen, J. N., Brandman, D. M., Ciancibello, J. G., Rezaei, P. G., Eskandar, E. N., Rosler, D. M., Shenoy, et al
2021; 68 (7): 2313-2325
- **Empiricism and Rights Justify the Allocation of Health Care Resources to Persons with Disorders of Consciousness.** *AJOB neuroscience*
Giacino, J. T., Bodien, Y. G., Zuckerman, D., Henderson, J., Schiff, N. D., Fins, J. J.
2021; 12 (2-3): 169-71

- **In Pursuit of Agency Ex Machina: Expanding the Map in Severe Brain Injury.** *AJOB neuroscience*
Fins, J. J., Wright, M. S., Giacino, J. T., Henderson, J., Schiff, N. D.
2021; 12 (2-3): 200–202
- **Commentary: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Deep Brain Stimulations for Obsessive Compulsive Disorder: Update of the 2014 Guidelines.** *Neurosurgery*
Henderson, J. M.
2021
- **The Neural Representation of Force across Grasp Types in Motor Cortex of Humans with Tetraplegia.** *eNeuro*
Rastogi, A., Willett, F. R., Abreu, J., Crowder, D. C., Murphy, B. A., Memberg, W. D., Vargas-Irwin, C. E., Miller, J. P., Sweet, J., Walter, B. L., Rezaii, P. G., Stavisky, S. D., Hochberg, et al
2021
- **Decoding spoken English from intracortical electrode arrays in dorsal precentral gyrus.** *Journal of neural engineering*
Wilson, G. H., Stavisky, S. D., Willett, F. R., Avansino, D. T., Kelemen, J. N., Hochberg, L. R., Henderson, J. M., Druckmann, S., Shenoy, K. V.
2020; 17 (6): 066007
- **Power-saving design opportunities for wireless intracortical brain-computer interfaces.** *Nature biomedical engineering*
Even-Chen, N., Muratore, D. G., Stavisky, S. D., Hochberg, L. R., Henderson, J. M., Murmann, B., Shenoy, K. V.
2020
- **Impact of skull density ratio on efficacy and safety of magnetic resonance-guided focused ultrasound treatment of essential tremor** *JOURNAL OF NEUROSURGERY*
D'Souza, M., Chen, K. S., Rosenberg, J., Elias, W., Eisenberg, H. M., Gwinn, R., Taira, T., Chang, J., Lipsman, N., Krishna, V., Igase, K., Yamada, K., Kishima, et al
2020; 132 (5): 1392–97
- **Speech-related dorsal motor cortex activity does not interfere with IBCI cursor control.** *Journal of neural engineering*
Stavisky, S. D., Willett, F. R., Avansino, D. T., Hochberg, L. R., Shenoy, K. V., Henderson, J. M.
2020; 17 (1): 016049
- **Neural Representation of Observed, Imagined, and Attempted Grasping Force in Motor Cortex of Individuals with Chronic Tetraplegia.** *Scientific reports*
Rastogi, A. n., Vargas-Irwin, C. E., Willett, F. R., Abreu, J. n., Crowder, D. C., Murphy, B. A., Memberg, W. D., Miller, J. P., Sweet, J. A., Walter, B. L., Cash, S. S., Rezaii, P. G., Franco, et al
2020; 10 (1): 1429
- **Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patient-specific approach.** *Human brain mapping*
Su, J. H., Choi, E. Y., Tourdias, T. n., Saranathan, M. n., Halpern, C. H., Henderson, J. M., Pauly, K. B., Ghanouni, P. n., Rutt, B. K.
2020
- **Neural ensemble dynamics in dorsal motor cortex during speech in people with paralysis.** *eLife*
Stavisky, S. D., Willett, F. R., Wilson, G. H., Murphy, B. A., Rezaii, P., Avansino, D. T., Memberg, W. D., Miller, J. P., Kirsch, R. F., Hochberg, L. R., Ajiboye, A. B., Druckmann, S., Shenoy, et al
2019; 8
- **Anatomic and Thermometric Analysis of Cranial Nerve Palsy after Laser Amygdalohippocampotomy for Mesial Temporal Lobe Epilepsy.** *Operative neurosurgery (Hagerstown, Md.)*
Huang, Y., Leung, S. A., Parker, J. J., Ho, A. L., Wintermark, M., Patel, S. H., Pauly, K. B., Kakusa, B. W., Beres, S. J., Henderson, J. M., Grant, G. A., Halpern, C. H.
2019
- **Volitional control of single-electrode high gamma local field potentials by people with paralysis** *JOURNAL OF NEUROPHYSIOLOGY*
Milekovic, T., Bacher, D., Sarma, A. A., Simeral, J. D., Saab, J., Pandarinath, C., Yvert, B., Sorice, B. L., Blabe, C., Oakley, E. M., Tringale, K. R., Eskandar, E., Cash, et al
2019; 121 (4): 1428–50
- **Robot-assisted versus manual navigated stereoelectroencephalography in adult medically-refractory epilepsy patients.** *Epilepsy research*
Kim, L. H., Feng, A. Y., Ho, A. L., Parker, J. J., Kumar, K. K., Chen, K. S., Grant, G. A., Henderson, J. M., Halpern, C. H.

2019; 159: 106253

- **Impact of skull density ratio on efficacy and safety of magnetic resonance-guided focused ultrasound treatment of essential tremor.** *Journal of neurosurgery*
D'Souza, M. n., Chen, K. S., Rosenberg, J. n., Elias, W. J., Eisenberg, H. M., Gwinn, R. n., Taira, T. n., Chang, J. W., Lipsman, N. n., Krishna, V. n., Igase, K. n., Yamada, K. n., Kishima, et al
2019: 1–6
- **Principled BCI Decoder Design and Parameter Selection Using a Feedback Control Model.** *Scientific reports*
Willett, F. R., Young, D. R., Murphy, B. A., Memberg, W. D., Blabe, C. H., Pandarinath, C. n., Stavisky, S. D., Rezaii, P. n., Saab, J. n., Walter, B. L., Sweet, J. A., Miller, J. P., Henderson, et al
2019; 9 (1): 8881
- **Cortical control of a tablet computer by people with paralysis** *PLOS ONE*
Nuyujukian, P., Sanabria, J., Saab, J., Pandarinath, C., Jarosiewicz, B., Blabe, C. H., Franco, B., Mernoff, S. T., Eskandar, E. N., Simeral, J. D., Hochberg, L. R., Shenoy, K., Henderson, et al
2018; 13 (11)
- **Brain-machine interface cursor position only weakly affects monkey and human motor cortical activity in the absence of arm movements.** *Scientific reports*
Stavisky, S. D., Kao, J. C., Nuyujukian, P., Pandarinath, C., Blabe, C., Ryu, S. I., Hochberg, L. R., Henderson, J. M., Shenoy, K. V.
2018; 8 (1): 16357
- **Laser interstitial thermal therapy (LITT): Seizure outcomes for refractory mesial temporal lobe epilepsy.** *Epilepsy & behavior : E&B*
Le, S., Ho, A. L., Fisher, R. S., Miller, K. J., Henderson, J. M., Grant, G. A., Meador, K. J., Halpern, C. H.
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