



Harold Westley Phillips

Assistant Professor of Neurosurgery (Pediatric Neurosurgery)

CLINICAL OFFICE (PRIMARY)

- **Pediatric Neurosurgery**

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Bio

BIO

H. Westley Phillips, MD is an Assistant Professor of Neurosurgery at Stanford University where he is a neurosurgeon-scientist specializing in pediatric neurosurgery with a special interest in epilepsy. Dr. Phillips received his undergraduate degree at Yale University where he was a member of the Varsity Football Team and received a Fulbright Scholarship. He completed an MD at the Perelman School of Medicine at the University of Pennsylvania, graduating with a certificate of distinction in the Clinical Neuroscience Training Program. He completed neurosurgical residency at UCLA where he received 2 years of NIH funding to investigate the genetic underpinnings of epilepsy. He received fellowship training in pediatric epilepsy surgery and genetics research at Boston Children's Hospital as well as pediatric neurosurgery at the University of Pittsburgh Medical Center, Children's Hospital of Pittsburgh before his arrival at Stanford. At Stanford, Dr. Phillips leads a molecular genetics laboratory and has a particular interest in defining and further understanding somatic mosaicism and its role in epileptogenesis. He has published manuscripts in leading academic journals including Nature: Genetics, JAMA Neurology, Journal of Neuroscience, Scientific Reports, Epilepsia and Neurology. He is dedicated to improving the treatment and outcomes for children with drug resistant epilepsy through innovative research and cutting-edge surgical techniques.

CLINICAL FOCUS

- Neurological Surgery

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Fellowship: University of Pittsburgh Pediatric Fellowship in Neurosurgery (2023) PA
- Fellowship, Boston Children's Hospital/Harvard Medical School , Pediatric Epilepsy Surgery and Genetic Research Fellowship (2022)
- Residency: UCLA Medical Center Dept of Neurosurgery (2022) CA

- Medical Education: Perelman School of Medicine University of Pennsylvania (2015) PA
- Undergraduate, Yale University , Molecular Biophysics and Biochemistry (2010)

Publications

PUBLICATIONS

- **Safety, feasibility, and technique of stereo-electroencephalography in children younger than 3 years.** *Journal of neurosurgery. Pediatrics*
Uchitel, J., Fariyike, O. A., Rockwood, S. J., Steeman, S., Kim, L. H., Choi, J., Berg, A., Ren, A., Teeyagura, P., Grant, G., Buch, V., Mahaney, K. B., Prolo, et al
2026: 1-10
- **Supraorbital craniotomy for focal frontal epilepsy via eyebrow incision and guided by in situ stereo-EEG electrodes: illustrative case.** *Journal of neurosurgery. Case lessons*
Ravi, K., Huang, Y., Fariyike, O. A., Uchitel, J., Wu, A. Y., Hyslop, A., Gallentine, W. B., Phillips, H. W.
2025; 10 (18)
- **Comprehensive pediatric neurosurgical implant checklist to maintain low implant infection rates: lessons on compliance and institutional culture.** *Journal of neurosurgery. Pediatrics*
Cheatham-West, A. O., Kumar, K. K., Kruger, J. F., Prolo, L. M., Maher, C. O., Phillips, H. W., Hong, D. S., Grant, G. A., Mahaney, K. B.
2025: 1-8
- **Advancing precision diagnostics: minimally invasive approaches for understanding the role of brain-limited somatic mutations in pediatric drug-resistant epilepsy.** *Frontiers in surgery*
Fariyike, O. A., Narayan, N., Liu, H. Y., Sanchez, D. R., Phillips, H. W.
2025; 12: 1568939
- **Intracranial neuromodulation for pediatric drug-resistant epilepsy: early institutional experience.** *Frontiers in surgery*
Uchitel, J., Lui, A., Knowles, J., Parker, J. J., Phillips, H. W., Halpern, C. H., Grant, G. A., Buch, V. P., Hyslop, A., Kumar, K. K.
2025; 12: 1569360
- **The contribution of de novo coding mutations to meningomyelocele** *NATURE*
Ha, Y., Nisal, A., Tang, I., Lee, C., Jhamb, I., Wallace, C., Howarth, R., Schroeder, S., Vong, K., Meave, N., Jiwani, F., Barrows, C., Lee, et al
2025
- **Analysis of DNA from brain tissue on stereo-EEG electrodes reveals mosaic epilepsy-related variants.** *Brain communications*
D'Gama, A. M., Phillips, H. W., Wang, Y., Chiu, M. Y., Chahine, Y., Swanson, A. C., Smith, R. S., Pearl, P. L., Tsuboyama, M., Madsen, J. R., Lidov, H., Lee, E. A., Prabhu, et al
2025; 7 (2): fcaf113
- **Current trends, molecular insights, and future directions toward precision medicine in the management of pediatric cerebral arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*
Phillips, H. W., Shanahan, R. M., Aiyudu, C., Miller, T. A., Liu, H. Y., Greene, S.
2024: 1-10
- **Intralesional epileptiform activity in a fourth ventricular hamartoma associated with epileptic hemifacial spasm in a toddler: illustrative case.** *Journal of neurosurgery. Case lessons*
Phillips, H. W., Papadakis, J. E., Borden, B. A., Pinto, A., Tsuboyama, M., Chiu, M. Y., Madsen, J. R., Patil, R., Stone, S. S.
2024; 8 (5)
- **Author Response: Comparison of Hemispheric Surgery Techniques for Pediatric Drug-Resistant Epilepsy: An Individual Patient Data Meta-Analysis.** *Neurology*
Chen, J., Harris, W. B., Wu, K. J., Phillips, H. W., Tseng, C., Weil, A. G., Fallah, A.
2024; 103 (2): e209330
- **Risk of meningomyelocele mediated by the common 22q11.2 deletion.** *Science (New York, N.Y.)*
Vong, K. I., Lee, S., Au, K. S., Crowley, T. B., Capra, V., Martino, J., Haller, M., Araújo, C., Machado, H. R., George, R., Gerding, B., James, K. N., Stanley, et al
2024; 384 (6695): 584-590

- **Somatic Mosaicism in PIK3CA Variant Correlates With Stereoelectroencephalography-Derived Electrophysiology.** *Neurology. Genetics*
Phillips, H. W., D'Gama, A. M., Wang, Y., Chahine, Y., Chiu, M., Swanson, A. C., Ahtam, B., Bolton, J. B., Madsen, J. R., Lee, E. A., Prabhu, S. P., Lidov, H. G., Papadakis, et al
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- **Hemispheric Epilepsy Surgery for Hemimegalencephaly: The UCLA Experience.** *Epilepsia*
Goel, K., Phillips, H. W., Chen, J., Ngo, J., Edmonds, B., Ha, P. X., Wang, A., Weil, A., Russell, B. E., Salamon, N., Nariai, H., Fallah, A.
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- **Characterization of low-grade epilepsy associated tumor from implanted stereoelectroencephalography electrodes.** *Epilepsia open*
Gatesman, T. A., Hect, J. L., Phillips, H. W., Johnson, B. J., Wald, A. I., McClung, C., Nikiforova, M. N., Skaugen, J. M., Pollack, I. F., Abel, T. J., Agnihotri, S.
2023
- **Comparison of magnetic resonance guided laser interstitial thermal therapy corpus callosum ablation (CCA) to open microsurgical corpus callosotomy (CC): A single center retrospective cohort study.** *Epilepsia open*
Phillips, H. W., Hect, J. L., Harford, E., Pan, E., Abel, T. J.
2023
- **Comparison of Hemispheric Surgery Techniques for Pediatric Drug-Resistant Epilepsy An Individual Patient Data Meta-analysis** *NEUROLOGY*
Chen, J., Harris, W. B., Wu, K. J., Phillips, H., Tseng, C., Weil, A. G., Fallah, A.
2023; 101 (4): E410-E424
- **Characteristics of ictal thalamic EEG in pediatric-onset neocortical focal epilepsy.** *medRxiv : the preprint server for health sciences*
Edmonds, B., Miyakoshi, M., Remore, L. G., Ahn, S., Phillips, H. W., Daida, A., Salamon, N., Bari, A., Sankar, R., Matsumoto, J. H., Fallah, A., Nariai, H.
2023
- **Focal drug-resistant temporal lobe epilepsy associated with an ipsilateral anterior choroidal artery aneurysm: illustrative case.** *Journal of neurosurgery. Case lessons*
Phillips, H. W., Rangwala, S. D., Papadakis, J., Segar, D. J., Tsuboyama, M., Pinto, A. L., Harmon, J. P., Soriano, S. G., Munoz, C. J., Madsen, J. R., See, A. P., Stone, S. S.
2023; 5 (26)
- **Utility of minimally invasive endoscopic skull base approaches for the treatment of drug-resistant mesial temporal lobe epilepsy: a review of current techniques and trends.** *Journal of neurosurgery*
Phillips, H. W., Miller, T. A., Liu, H. Y., Abel, T. J., McDowell, M. M.
2023: 1-9
- **Contribution of Somatic Ras/Raf/Mitogen-Activated Protein Kinase Variants in the Hippocampus in Drug-Resistant Mesial Temporal Lobe Epilepsy** *JAMA NEUROLOGY*
Khoshkhoo, S., Wang, Y., Chahine, Y., Erson-Omay, E., Robert, S. M., Kiziltug, E., Damisah, E. C., Nelson-Williams, C., Zhu, G., Kong, W., Huang, A., Stronge, E., Phillips, et al
2023; 80 (6): 578-587
- **Preliminary Experience Suggests the Addition of Choroid Plexus Cauterization to Functional Hemispherectomy May Reduce Posthemispherectomy Hydrocephalus** *NEUROSURGERY*
Phillips, H., Chen, J., Tucker, A. M., Ding, K., Kashanian, A., Nagahama, Y., Mathern, G. W., Weil, A. G., Fallah, A.
2023; 92 (2): 300-307
- **Comprehensive multi-omic profiling of somatic mutations in malformations of cortical development** *NATURE GENETICS*
Chung, C., Yang, X., Bae, T., Vong, K., Mittal, S. H., Donkels, C., Westley Phillips, H., Li, Z., Marsh, A. P. L., Breuss, M., Ball, L., Garcia, C., George, et al
2023; 55 (2): 209+
- **Sensorimotor outcomes after resection for perirolandic drug-resistant epilepsy: a systematic review and individual patient data meta-analysis** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Shlobin, N. A., Wang, A., Phillips, W., Yan, H., Ibrahim, G. M., Elkaim, L. M., Wang, S., Liu, X., Cai, L., Nguyen, D. K., Fallah, A., Weil, A. G.
2022; 30 (4): 410-427

- **Long-term outcomes of pediatric epilepsy surgery: Individual participant data and study level meta-analyses** *SEIZURE-EUROPEAN JOURNAL OF EPILEPSY*
Harris, W. B., Brunette-Clement, T., Wang, A., Phillips, H., von Der Brelie, C., Weil, A. G., Fallah, A.
2022; 101: 227-236
- **Midline Brain Shift After Hemispheric Surgery: Natural History, Clinical Significance, and Association With Cerebrospinal Fluid Diversion** *OPERATIVE NEUROSURGERY*
Phillips, H., Maniquis, C. A. B., Chen, J., Duby, S. L., Nagahama, Y., Bergeron, D., Ibrahim, G. M., Weil, A. G., Fallah, A.
2022; 22 (5): 269-276
- **Customized polyetheretherketone (PEEK) implants are associated with similar hospital length of stay compared to autologous bone used in cranioplasty procedures** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
Mozaffari, K., Rana, S., Chow, A., Mahgerefteh, N., Duong, C., Sheppard, J. P. P., Phillips, H., Jarrahy, R., Yang, I.
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- **Superior Semicircular Canal Dehiscence Revision Surgery Outcomes: A Single Institution's Experience** *WORLD NEUROSURGERY*
Mozaffari, K., Ghodrati, F., Pradhan, A., Ng, E., Ding, K., Rana, S., Duong, C., Anderson, R. N., Enomoto, A., Sheppard, J. P., Sun, M. Z., Phillips, H., Yang, et al
2021; 156: E408-E414
- **Real-World Preliminary Experience With Responsive Neurostimulation in Pediatric Epilepsy: A Multicenter Retrospective Observational Study.** *Neurosurgery*
Nagahama, Y., Zervos, T. M., Murata, K. K., Holman, L., Karsonovich, T., Parker, J. J., Chen, J., Phillips, H. W., Fajardo, M., Nariai, H., Hussain, S. A., Porter, B. E., Grant, et al
2021
- **Systematic Review of Serum Biomarkers in Traumatic Brain Injury** *CUREUS JOURNAL OF MEDICAL SCIENCE*
Mozaffari, K., Dejam, D., Duong, C., Ding, K., French, A., Preet, E., Franks, A., Kwan, I., Phillips, H., Kim, D. Y., Yang, I.
2021; 13 (8): e17056
- **Comparison of the Safety of Prophylactic Anticoagulants After Intracranial Surgery** *NEUROSURGERY*
Bell, J. S., Florence, T. J., Phillips, H., Patel, K., Macaluso, N. J., Villanueva, P. G., Naik, P. K., Kim, W.
2021; 89 (3): 527-536
- **Pediatric Epilepsy Surgery in Focal and Generalized Epilepsy: Current Trends and Recent Advancements** *JOURNAL OF PEDIATRIC EPILEPSY*
Harris, W. B., Phillips, H., Fallah, A., Mathern, G. W.
2021; 10 (02): 88-96
- **Novel tonometer device distinguishes brain stiffness in epilepsy surgery** *SCIENTIFIC REPORTS*
Fallah, A., Subramaniam, T., Phillips, H., Michalet, X., Vinters, H. V., Yong, W. H., Wu, J. Y., Salamon, N., Ellingson, B. M., Wang, A. C., Reyes, S. D., Ibrahim, G. M., Weil, et al
2020; 10 (1): 20978
- **A systematic analysis of stereotactic radiosurgery surveys for residents in neurosurgery training programs** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
Ding, K., Romiy, P., Ng, E., Udawatta, M., Dejam, D., Phillips, H., Sun, M. Z., Yang, I.
2020; 417: 116867
- **Epilepsy surgery for Rasmussen encephalitis: the UCLA experience** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Bellamkonda, N., Phillips, H., Chen, J., Tucker, A. M., Maniquis, C., Mathern, G. W., Fallah, A.
2020; 26 (4): 389-397
- **Seizure outcomes in children with Rasmussen's encephalitis undergoing resective or hemispheric epilepsy surgery: an individual participant data meta-analysis** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Harris, W. B., Phillips, H., Chen, J., Weil, A. G., Ibrahim, G. M., Fallah, A.
2020; 25 (3): 274-283
- **Social Media Use for Professional Purposes in the Neurosurgical Community: A Multi-Institutional Study** *WORLD NEUROSURGERY*
Phillips, H., Chen, J., Wilson, B., Udawatta, M., Prashant, G., Nagasawa, D., Yang, I.
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- **Radiosurgery treatment is associated with improved facial nerve preservation versus repeat resection in recurrent vestibular schwannomas** *ACTA NEUROCHIRURGICA*
Romiyo, P., Ng, E., Dejam, D., Ding, K., Sheppard, J. P., Duong, C., Franks, A., Ong, V., Udawatta, M., Phillips, H., Gopen, Q., Yang, I.
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- **Age-related differences in social media use in the neurosurgical community: A multi-institutional study** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Udawatta, M., Ng, E., Phillips, H., Chen, J., Wilson, B., Prashant, G. N., Nagasawa, D. T., Yang, I.
2019; 180: 97-100
- **Acute postoperative sialadenitis after retrosigmoid craniotomies** *JOURNAL OF NEUROSURGICAL SCIENCES*
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2016; 60 (3): 403-404
- **Time interval to surgery and outcomes following the surgical treatment of acute traumatic subdural hematoma** *JOURNAL OF CLINICAL NEUROSCIENCE*
Walcott, B. P., Khanna, A., Kwon, C., Phillips, H., Nahed, B. V., Coumans, J.
2014; 21 (12): 2107-2111
- **Utility of foramen ovale electrodes in mesial temporal lobe epilepsy** *EPILEPSIA*
Sheth, S. A., Aronson, J. P., Shafi, M. M., Phillips, H., Velez-Ruiz, N., Walcott, B. P., Kwon, C., Mian, M. K., Dykstra, A. R., Cole, A., Eskandar, E. N.
2014; 55 (5): 713-724
- **Neurosurgical management for complicated catastrophic antiphospholipid syndrome** *JOURNAL OF CLINICAL NEUROSCIENCE*
Drazin, D., Phillips, H., Shirzadi, A., Drazin, N., Schievink, W.
2014; 21 (4): 680-683
- **Sports-related concussion: Anonymous survey of a collegiate cohort.** *Neurology. Clinical practice*
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2013; 3 (4): 279-287
- **Nanobiopolymer for Direct Targeting and Inhibition of EGFR Expression in Triple Negative Breast Cancer** *PLOS ONE*
Inoue, S., Patil, R., Portilla-Arias, J., Ding, H., Konda, B., Espinoza, A., Mongayt, D., Markman, J. L., Elramsisy, A., Phillips, H., Black, K. L., Holler, E., Ljubimova, et al
2012; 7 (2): e31070
- **Noradrenergic Control of Cortico-Striato-Thalamic and Mesolimbic Cross-Structural Synchrony** *JOURNAL OF NEUROSCIENCE*
Dzirasa, K., Phillips, H., Sotnikova, T. D., Salahpour, A., Kumar, S., Gainetdinov, R. R., Caron, M. G., Nicoletis, M. A. L.
2010; 30 (18): 6387-6397