



Ethan Schonfeld

MD Student with Scholarly Concentration in Molecular Basis of Medicine / Surgery, expected graduation Spring 2028

Bio

HONORS AND AWARDS

- Medical Student Basic Science Research Award, Department of Neurosurgery, Stanford University School of Medicine (May 2025)
- Researcher of the Month, American Brain Tumor Association (January 2025)
- Jack and Fay Netchin Medical Student Summer Fellowship, American Brain Tumor Association (2024)
- The J.E. Wallace Sterling Award for Scholastic Achievement, School of Humanities and Sciences, Stanford University (June 2022)

EDUCATION AND CERTIFICATIONS

- MS, Stanford University School of Medicine , Biomedical Informatics (2023)
- BSH, Stanford University, School of Humanities and Sciences , Biology (Biochemistry & Biophysics) (2022)

Publications

PUBLICATIONS

- **Next-generation immunotherapy biologics for glioblastoma.** *Frontiers in immunology*
Schonfeld, E., Sjöholm, A., Ha, J., Liu, J., Nageeb, G., Annagiri, S., Kim, L., Choi, J., Lim, M.
2026; 17: 1775093
- **Immune-Mediated Recurrent Glioblastoma Growth: Insights from a Novel Murine Model**
Schonfeld, E., Choi, J., Annagiri, S., Kim, L., Ha, J., Liu, J., Sjöholm, A., Lim, J., Lee, S., Lau, C., Cho, K., Verma, R., Lim, et al
OXFORD UNIV PRESS INC.2025: v219
- **The landscape of immune checkpoint inhibitor clinical trials in glioblastoma: A systematic review.** *Neuro-oncology advances*
Schonfeld, E., Choi, J., Tran, A., Kim, L. H., Lim, M.
2024; 6 (1): vdae174
- **Sigma-1 receptor expression in a subpopulation of lumbar spinal cord microglia in response to peripheral nerve injury.** *Scientific reports*
Schonfeld, E., Johnstone, T. M., Haider, G., Shah, A., Marianayagam, N. J., Biswal, S., Veeravagu, A.
2023; 13 (1): 14762
- **Demonstrating the successful application of synthetic learning in spine surgery for training multi-center models with increased patient privacy.** *Scientific reports*
Schonfeld, E., Veeravagu, A.
2023; 13 (1): 12481
- **sEEG-guided responsive neurostimulation to treat neocortical epilepsy: A multicenter retrospective study of the efficacy and safety of depth electrode-mediated neuromodulation.** *Epilepsia open*
Sadeghzadeh, S., Purger, D. A., Bhanot, P., Johnson, N., Barbosa, D. A., Huang, Y., Park, J. J., Schonfeld, E., Abikenari, M. A., Jain, B., Aronson, J. P., Drees, C., Fisher, et al

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- **Myeloid-driven axonogenesis bridges neural and immune remodeling in glioblastoma**
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OXFORD UNIV PRESS INC.2025: v449
- **'Time is brain': Enhancing stroke knowledge and emergency response readiness in seniors** *HEALTH EDUCATION JOURNAL*
Sadeghzadeh, S., Adu-Brimpong, J., Abikenari, M. A., Bhatia, A., Harary, P. M., Bhanot, P., Muller, R. K., Escalante, R., Schonfeld, E., Jain, B., Nageeb, G., Wu, A., Hsin, et al
2025
- **Circadian rhythms in pediatric high-grade gliomas may contribute to treatment efficacy.** *Scientific reports*
Nettin, E. A., Garcia, C. A., Sayed, F. F., Schonfeld, E., Nguyen, T., Guinle, M. I., Petritsch, C. K., Gibson, E. M., Prolo, L. M.
2025; 15 (1): 32010
- **Publicly Available Datasets for Artificial Intelligence in Neurosurgery: A Systematic Review.** *Journal of clinical medicine*
Chan, B., Kim, B., Schonfeld, E., Nageeb, G., Pant, A., Sjöholm, A., Medikonda, R., Hani, U., Veeravagu, A.
2025; 14 (16)
- **Generation of synthetic tomographic images from biplanar X-ray: a narrative review of history, methods, and the state of the art.** *Journal of neurosurgical sciences*
Alakmeh, A., Zanier, O., Bottini, M., Gandia-Gonzalez, M. L., Burström, G., Edström, E., Elmi Terander, A., Schonfeld, E., Veeravagu, A., Regli, L., Serra, C., Staartjes, V. E.
2025; 69 (4): 350-361
- **Transforaminal Lumbar Interbody Fusion (TLIF) with Expandable Banana-Shaped Interbody Spacers-Institutional 5-Year Experience.** *Journal of clinical medicine*
Stienen, M. N., Bertulli, L., Fischer, G., Battig, L., Yildiz, Y., Feuerstein, L., Kissling, F., Schofl, T., Stengel, F. C., Gianoli, D., Motov, S., Schonfeld, E., Veeravagu, et al
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- **Top advances of the year: The status of chimeric antigen receptor T cells in neuro-oncology.** *Cancer*
Medikonda, R., Abikenari, M. A., Schonfeld, E., Lim, M.
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- **The Metabolic Orchestration of Immune Evasion in Glioblastoma: From Molecular Perspectives to Therapeutic Vulnerabilities.** *Cancers*
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- **Integrated management of metastatic spinal tumors: current status and future directions.** *Medical oncology (Northwood, London, England)*
Kim, M. J., Marianayagam, N. J., Chandra, A., Ranalli, C., Schonfeld, E., Avila-Madrigal, J. P., Flusche, A. M., Schoeffler, K., Alomari, S., Rao, N. B., Yoo, K., Lam, F. C., Park, et al
2025; 42 (6): 210
- **Single Position Lateral Anterior Lumbar Interbody Fusion at L5/S1.** *Neurosurgery*
Stienen, M. N., Yoo, K., Schonfeld, E., Shah, V., Abikenari, M., Pangal, D., Chandra, V., Veeravagu, A.
2025; 96 (3S): S17-S25
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Shah, A., Schonfeld, E., Haider, G., Marianayagam, N. J., Sadeghzadeh, S., Stienen, M. N., Veeravagu, A.
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- **Treatment of occult radiculopathy in complex regional pain syndrome by anterior cervical discectomy and fusion following localization by [18F]fluorodeoxyglucose radioligand and PET/MRI: illustrative case.** *Journal of neurosurgery. Case lessons*
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- **Indications, complications and outcomes of minimally-invasive lateral lumbar interbody fusion with anterior column realignment vs. standard LLIF using expandable interbody spacers.** *Frontiers in surgery*
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2024; 11: 1455445
- **REPROGRAMMING OF MYELOID CELL METABOLISM VIA HEME OXYGENASE-1 INHIBITION POTENTIATES ANTI-TUMOR IMMUNITY IN A MURINE GLIOMA MODEL**
Kim, L., Choi, J., Nitta, R., Pant, A., Schonfeld, E., Li, G., Jackson, C., Wang, X., Lim, M.
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- **PEDIATRIC GLIOMAS EXPRESS CIRCADIAN GENES AND DEMONSTRATE CIRCADIAN REGULATION OF TEMOZOLOMIDE SENSITIVITY**
Nettnin, E. A., Garcia, C. A., Schonfeld, E., Mehl, L. C., Guinle, M., Petritsch, C. K., Gibson, E. M., Prolo, L. M.
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- **INFIGRATINIB INHIBITION OF THE THBS1 PATHWAY IN MELANOMA BRAIN METASTASIS**
Tran, A., Choi, J., Bergsneider, B., Kim, L., Schonfeld, E., Abikenari, M., Verma, R., Cho, K., Lim, M.
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- **Impact of Supine versus Prone Positioning on Segmental Lumbar Lordosis in Patients Undergoing ALIF Followed by PSF: A Comparative Study.** *Journal of clinical medicine*
Sadeghzadeh, S., Yoo, K. H., Lopez, I., Johnstone, T., Schonfeld, E., Haider, G., Marianayagam, N. J., Stienen, M. N., Veeravagu, A.
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Huang, Y., Sadeghzadeh, S., Li, A. H., Schonfeld, E., Ramayya, A. G., Buch, V. P.
2024
- **Deep Learning Prediction of Cervical Spine Surgery Revision Outcomes Using Standard Laboratory and Operative Variables.** *World neurosurgery*
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2024
- **Evaluating Computer Vision, Large Language, and Genome-Wide Association Models in a Limited Sized Patient Cohort for Pre-Operative Risk Stratification in Adult Spinal Deformity Surgery.** *Journal of clinical medicine*
Schonfeld, E., Pant, A., Shah, A., Sadeghzadeh, S., Pangal, D., Rodrigues, A., Yoo, K., Marianayagam, N., Haider, G., Veeravagu, A.
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- **Machine Learning in Neurosurgery: Toward Complex Inputs, Actionable Predictions, and Generalizable Translations.** *Cureus*
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- **Type II Odontoid Fractures in the Elderly Presenting to the Emergency Department: An Assessment of Factors Affecting In-Hospital Mortality and Discharge to Skilled Nursing Facilities.** *The spine journal : official journal of the North American Spine Society*
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- **Understanding transfer learning for chest radiograph clinical report generation with modified transformer architectures.** *Heliyon*
Vendrow, E., Schonfeld, E.
2023; 9 (7): e17968
- **Clinical Outcomes and Cost Profiles for Cage and Allograft Anterior Cervical Discectomy and Fusion Procedures in the Adult Population: A Propensity Score-Matched Study.** *Asian spine journal*
Rodrigues, A. J., Varshneya, K., Stienen, M. N., Schonfeld, E., Than, K. D., Veeravagu, A.
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- **The Impact of Preoperative Myelopathy on Postoperative Outcomes among Anterior Cervical Discectomy and Fusion Procedures in the Nonelderly Adult Population: A Propensity-Score Matched Study.** *Asian spine journal*
Rodrigues, A. J., Schonfeld, E., Varshneya, K., Stienen, M. N., Veeravagu, A.
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- **Comparison of Deep Learning and Classical Machine Learning Algorithms to Predict Post-operative Outcomes for Anterior Cervical Discectomy and Fusion Procedures with State-of-the-art Performance.** *Spine*
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2022
- **Chronic opioid use prior to ACDF surgery is associated with inferior post-operative outcomes: a propensity-matched study of 17,443 chronic opioid users.** *World neurosurgery*
Rodrigues, A. J., Varshneya, K., Schonfeld, E., Malhotra, S., Stienen, M. N., Veeravagu, A.
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- **Vertebrae segmentation in reduced radiation CT imaging for augmented reality applications.** *International journal of computer assisted radiology and surgery*
Schonfeld, E., de Lotbiniere-Bassett, M., Jansen, T., Anthony, D., Veeravagu, A.
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- **Autocatalytic-protection for an unknown locus CRISPR-Cas countermeasure for undesired mutagenic chain reactions.** *Journal of theoretical biology*
Schonfeld, E., Schonfeld, E., Schonfeld, D.
2021; 528: 110831
- **On the relation of gene essentiality to intron structure: a computational and deep learning approach** *LIFE SCIENCE ALLIANCE*
Schonfeld, E., Vendrow, E., Vendrow, J., Schonfeld, E.
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- **Lateralized Deficits in Motor, Sensory, and Olfactory Domains in Dementia** *JOURNAL OF ALZHEIMERS DISEASE*
Schonfeld, E., Schonfeld, E., Aman, C., Gill, N., Kim, D., Rabin, S., Shamshuddin, B., Sealey, L., Senno, R.
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- **OnabotulinumtoxinA injections: treatment of reversible cerebral vasoconstriction syndrome chronic daily headaches** *BMJ CASE REPORTS*
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