



Alexander Ren

MD Student with Scholarly Concentration in Molecular Basis of Medicine / Neuroscience, Behavior, and Cognition, expected graduation Spring 2026

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
- **Molecular and biophysical remodeling of the blood-brain barrier in glioblastoma: mechanistic drivers of tumor-neurovascular crosstalk** *FRONTIERS IN PHYSICS*
Abikenari, M., Sjolholm, M., Liu, J., Nageeb, G., Ha, J. H., Wu, J., Ren, A., Sayadi, J., Lim, J., Cho, K., Verma, R., Medikonda, R., Banu, et al
2025; 13
- **Female department chairs and diversity among general surgery applicants and entering residents.** *Surgery open science*
Ren, A. L., Choi, J., Wren, S. M.
2025; 28: 101-103
- **The immunological landscape of traumatic brain injury: insights from pathophysiology to experimental models.** *Frontiers in neurology*
Abikenari, M., Ha, J. H., Liu, J., Ren, A., Cho, K. B., Lim, J., Kim, L. H., Medikonda, R., Choi, J., Lim, M.
2025; 16: 1668480
- **Correction of sodium channel mutations in sensory neurons reverses aberrant properties.** *Brain : a journal of neurology*
Shim, J., Tanaka, B., Taub, D. G., Mis, M. A., Schulman, B. R., Snavelly, A., Cheng, Y. C., Laedermann, C., Buttermore, E. D., Ren, A., Hermawan, C., Dou, D., Kawaguchi, et al
2025
- **Nervus intermedius sectioning for the treatment of geniculate neuralgia.** *Journal of neurosurgery*
Ren, A. L., Ehsani, A., Park, D. J., Persad, A. R., Wu, J. Y., Hall, J. C., Zhang, M., Choi, J., Kim, L. H., Xu, R., Chang, S. D., Lim, M.
2025: 1-8
- **Tumor-Associated Microglia Secrete Extracellular ATP to Support Glioblastoma Progression.** *Cancer research*
Wu, C. Y., Chen, Y., Lin, Y. J., Wei, K. C., Chang, K. Y., Feng, L. Y., Chen, K. T., Li, G., Ren, A. L., Nitta, R. T., Wu, J. Y., Cho, K. B., Pant, et al
2024; 84 (23): 4017-4030
- **Extraction of Unstructured Electronic Health Records to Evaluate Glioblastoma Treatment Patterns.** *JCO clinical cancer informatics*
Swaminathan, A., Ren, A. L., Wu, J. Y., Bhargava-Shah, A., Lopez, I., Srivastava, U., Alexopoulos, V., Pizzitola, R., Bui, B., Alkhani, L., Lee, S., Mohit, N., Seo, et al
2024; 8: e2300091
- **Pediatric Trauma Center Access, Regional Injury Burden, and Socioeconomic Disadvantage.** *JAMA surgery*
Hur, D. G., Ren, A. L., Yue, T. M., Spain, D. A., Choi, J.
2024
- **Getting What You Pay For: Impact of Copayments on Physical Therapy and Opioid Initiation, Timing, and Continuation for Newly Diagnosed Low Back Pain.** *The spine journal : official journal of the North American Spine Society*

Jin, M. C., Jensen, M., Barros Guinle, M. I., Ren, A., Zhou, Z., Zygourakis, C. C., Desai, A. M., Veeravagu, A., Ratliff, J. K.
2024

- **Para-infectious brain injury in COVID-19 persists at follow-up despite attenuated cytokine and autoantibody responses.** *Nature communications*
Michael, B. D., Dunai, C., Needham, E. J., Tharmaratnam, K., Williams, R., Huang, Y., Boardman, S. A., Clark, J. J., Sharma, P., Subramaniam, K., Wood, G. K., Collie, C., Digby, et al
2023; 14 (1): 8487
- **Selective prediction for extracting unstructured clinical data.** *Journal of the American Medical Informatics Association : JAMIA*
Swaminathan, A., Lopez, I., Wang, W., Srivastava, U., Tran, E., Bhargava-Shah, A., Wu, J. Y., Ren, A. L., Caoili, K., Bui, B., Alkhani, L., Lee, S., Mohit, et al
2023
- **Translational Models in Glioma Immunotherapy Research.** *Current oncology (Toronto, Ont.)*
Ren, A. L., Wu, J. Y., Lee, S. Y., Lim, M.
2023; 30 (6): 5704-5718
- **Opioid usage in lumbar disc herniation patients with nonsurgical, early, and late surgical treatments.** *World neurosurgery*
Zhou, Z., Jin, M. C., Jensen, M. R., Barros Guinle, M. I., Ren, A., Agarwal, A. A., Leaston, J., Ratliff, J. K.
2023
- **Brain injury in COVID-19 is associated with dysregulated innate and adaptive immune responses.** *Brain : a journal of neurology*
Needham, E. J., Ren, A. L., Digby, R. J., Norton, E. J., Ebrahimi, S., Outtrim, J. G., Chatfield, D. A., Manktelow, A. E., Leibowitz, M. M., Newcombe, V. F., Doffinger, R., Barcenas-Morales, G., Fonseca, et al
2022
- **Immunometabolism, a new therapeutic development for immunotherapies of high-grade gliomas: a narrative review.** *Chinese clinical oncology*
Wu, J. Y., Ren, A. L., Lim, M.
2022; 11 (4): 26
- **Health Care Resource Utilization in Management of Opioid-Naive Patients With Newly Diagnosed Neck Pain.** *JAMA network open*
Jin, M. C., Jensen, M., Zhou, Z., Rodrigues, A., Ren, A., Barros Guinle, M. I., Veeravagu, A., Zygourakis, C. C., Desai, A. M., Ratliff, J. K.
2022; 5 (7): e2222062
- **Neurological update: COVID-19.** *Journal of neurology*
Ren, A. L., Digby, R. J., Needham, E. J.
2021; 268 (11): 4379-4387