

# Stanford

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## Aroosa Zamarud, MD

Postdoctoral Scholar, Radiology

### Bio

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#### BIO

Dr. Aroosa Zamarud is a medical doctor who completed her undergraduate education at Bannu Medical College, Khyber Medical University, Pakistan. Following her graduation and a one-year medical internship, she served as a Medical Officer at Zubaida Khaliq Memorial Hospital, Gilgit Baltistan, Pakistan, a charitable institution. During her tenure, she organized medical camps in remote villages in Northern Pakistan, providing healthcare services to underprivileged populations.

In March 2022, Dr. Zamarud joined the Stanford Neurosurgery department as a Visiting Instructor. Her research primarily focused on Clinical Neurooncology, with a special emphasis on the use of Cyberknife stereotactic radiosurgery as a treatment modality for various benign and malignant brain pathologies, including Vestibular Schwannoma, Sarcoma, Spinal metastases, Meningioma, Pineal and Pituitary metastases, and Arteriovenous malformations.

Currently, Dr. Zamarud is serving as a postdoctoral fellow in neurointerventional Radiology. Her ongoing research centers on investigating the role of venous outflow in patients with acute ischemic stroke, among other stroke-related studies.

#### STANFORD ADVISORS

- Jeremy Heit, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Stereotactic Radiosurgery for Ependymoma in Pediatric and Adult Patients: A Single-Institution Experience.** *Neurosurgery*  
Yoo, K. H., Marianayagam, N. J., Park, D. J., Persad, A., Zamarud, A., Shaghaghian, E., Tayag, A., Ustrzynski, L., Emrich, S. C., Gu, X., Ho, Q. A., Soltys, S. G., Meola, et al  
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- **Percutaneous Disc Biopsy versus Bone Biopsy for the Identification of Infectious Agents in Osteomyelitis/Discitis.** *Journal of vascular and interventional radiology : JVIR*  
Zamarud, A., Kesten, J., Park, D. J., Pulli, B., Telischak, N. A., Dodd, R. L., Do, H. M., Marks, M. P., Heit, J. J.  
2024
- **Therapeutic approaches for spinal synovial sarcoma: a comprehensive review of the literature.** *Journal of neurosurgery. Spine*  
Zamarud, A., Shahnoor, S., Maryyum, A., Khan, A. M., Hassan, K. M., Ijaz, A., Sayed, R., Yoo, K., Park, D. J., Chang, S. D.  
2024: 1-8
- **Surgery and stereotactic radiosurgery for spinal leiomyosarcoma: a single-institution retrospective series and systematic review.** *Journal of neurosurgery. Spine*  
Zamarud, A., Marianayagam, N. J., Sekar, V., Testa, S., Park, D. J., Yener, U., McCleary, T. L., Yoo, K. H., Emrich, S., Tayag, A., Ustrzynski, L., Pollom, E., Soltys, et al

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2023: 1-13

- **Predictors of mortality in chronic subdural hematoma evacuation.** *Neurosurgical review*  
Sayed, R., Gross, S., Zamarud, A., Nie, L., Mudhar, G., Eikermann, M., Rupp, S., Kim, J., Babar, M., Basam, M., Yassari, R., Gelfand, Y.  
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- **Perineal Abscess Following SpaceOAR Insertion.** *Cureus*  
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2023; 15 (12): e51050
- **Spinal metastases of pineal region glioblastoma with primitive neuroectodermal features highlighting the importance of molecular diagnoses: illustrative case.** *Journal of neurosurgery. Case lessons*  
Shah, A., Marianayagam, N. J., Zamarud, A., Park, D. J., Persad, A. R., Soltys, S. G., Chang, S. D., Veeravagu, A.  
2023; 6 (20)
- **The outcome of central nervous system hemangioblastomas in Von Hippel-Lindau (VHL) disease treated with belzutifan: a single-institution retrospective experience.** *Journal of neuro-oncology*  
Zamarud, A., Marianayagam, N. J., Park, D. J., Yener, U., Yoo, K. H., Meola, A., Chang, S. D.  
2023
- **STEREOTACTIC RADIOSURGERY FOR RESIDUAL, RECURRENT, AND METASTATIC HEMANGIOPERICYTOMAS: A SINGLE INSTITUTION EXPERIENCE**  
Yoo, K., Park, D., Veeravagu, A., Lee, M., Marianayagam, N., Zamarud, A., Gu, X., Pollom, E., Soltys, S., Chang, S., Meola, A.  
OXFORD UNIV PRESS INC.2023
- **Ultrasound guided versus conventional Fluoroscopy guided epidural injection for radiculopathy. A meta-analysis of Randomized Controlled Trials.** *World neurosurgery*  
Ahmed, M., Ahmad, A., Arshad, M., Naseer, H., Zamarud, A.  
2023
- **Stereotactic Radiosurgery for Medically Refractory Trigeminal Neuralgia Secondary to Stroke: A Systematic Review and Clinical Case Presentation.** *World neurosurgery*  
Zamarud, A., Park, D. J., Ung, T. H., McCleary, T. L., Yoo, K. H., Soltys, S. G., Lim, M., Chang, S. D., Meola, A.  
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- **Navigating Glioblastoma Diagnosis and Care: Transformative Pathway of Artificial Intelligence in Integrative Oncology.** *Cureus*  
Ibrahim, M., Muhammad, Q., Zamarud, A., Eiman, H., Fazal, F.  
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- **Stereotactic radiosurgery for distant brain metastases secondary to esthesioneuroblastoma: a single-institution series.** *Neurosurgical focus*  
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Zamarud, A., Park, D. J., Dadey, D. Y., Yoo, K. H., Marianayagam, N. J., Yener, U., Szalkowski, G. A., Pollom, E., Soltys, S., Chang, S. D., Meola, A.  
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- **CyberKnife Radiosurgery for Spinal Leptomeningeal Metastases Secondary to Esthesioneuroblastoma: A Clinical Case Report.** *Cureus*  
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- **Cyberknife Radiosurgery for Synovial Sarcoma Metastasizing to the Spine: Illustrative Case Reports.** *Cureus*  
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- **648 Machine Learning Predicts Cavernous Sinus Invasion of Pituitary Adenomas** *Neurosurgery*

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- **Cyberknife Radiosurgery for Synovial Sarcoma Metastasizing to the Spine** *Cureus*

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