



Benjamin Pulli, MD

- Clinical Assistant Professor, Radiology
- Clinical Assistant Professor (By courtesy), Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroimaging and Neurointervention**

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Bio

BIO

Dr. Pulli is a dual fellowship trained diagnostic and interventional neuroradiologist with a focus on vascular disorders of the brain, head, neck, and spine. He is a clinical assistant professor in the Department of Radiology, Neuroradiology Division.

Having grown up in Austria, Dr. Pulli moved to the US after completing medical school in Innsbruck, Austria. He completed post-doctoral research training in stroke imaging in the Division of Neuroradiology at the Massachusetts General Hospital, as well as in experimental molecular imaging techniques of neuroinflammatory disorders at the Center for Systems Biology of Massachusetts General Hospital and Harvard Medical School.

He completed residency training in Radiology and fellowship training in Diagnostic Neuroradiology at the Massachusetts General Hospital in Boston. He then completed a second fellowship in interventional neuroradiology/neurointerventional surgery at Stanford University School of Medicine.

After having graduated from fellowship, Dr. Pulli then spent more than a year practicing Interventional Neuroradiology at Pacific Neuroscience Institute in Los Angeles. He employs state-of-the-art minimally invasive endovascular and percutaneous surgical techniques to treat patients with brain aneurysms, arteriovenous malformations, dural arteriovenous fistulas, carotid artery stenosis, acute stroke, chronic subdural hematoma, idiopathic intracranial hypertension, vascular tumors, and chronic back pain.

His research focuses on advanced imaging techniques for acute ischemic stroke and other neurovascular diseases. He has authored more than 40 peer-reviewed publications and received scientific grants from institutions such as the Radiological Society of North America and the Ernst Schering Foundation. In addition, he has made invited presentations to his peers at meetings of organizations such as the American Society of Neuroradiology, Radiological Society of North American, European Congress of Radiology, and Western Neuroradiological Society.

He is a member of the Society of Neurointerventional Surgery.

CLINICAL FOCUS

- Neurointerventional Surgery
- Interventional Neuroradiology
- Aneurysm, Brain
- Intracranial Arteriovenous Malformations
- Dural Arteriovenous Fistula
- Carotid Stenosis
- Acute Stroke
- Thrombectomy
- Embolization, Therapeutic
- Intracranial Atheroscleroses
- Hypertension, Idiopathic Intracranial
- Chronic Subdural Hematoma
- Neuroradiology

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiology
- Clinical Assistant Professor (By courtesy), Neurosurgery

PROFESSIONAL EDUCATION

- Fellowship, Stanford University Interventional Neuroradiology Fellowship , CA (2021)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2019)
- Fellowship: Massachusetts General Hospital Neuroradiology Fellowship (2019) MA
- Residency: Massachusetts General Hospital Radiology Residency (2018) MA
- Internship: MetroWest Medical Center Transitional Year (2014) MA
- Medical Education: Medical University Innsbruck (2009) Austria

Publications

PUBLICATIONS

- **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
- **Random expert sampling for deep learning segmentation of acute ischemic stroke on non-contrast CT.** *Journal of neurointerventional surgery*
Ostmeier, S., Axelrod, B., Liu, Y., Yu, Y., Jiang, B., Yuen, N., Pulli, B., Verhaaren, B. F., Kaka, H., Wintermark, M., Michel, P., Mahammedi, A., Federau, et al
2024
- **Intravenous Tenecteplase and Carotid Artery Stenting in a Young Adult With Fibromuscular Dysplasia and Carotid Dissection.** *Stroke*
Alfandy, F., Dugue, R., Pulli, B., George, P. M.
2023
- **Matched-pair analysis of patients with ischemic stroke undergoing thrombectomy using next-generation balloon guide catheters.** *Journal of neurointerventional surgery*
Kim, L. H., Choi, J., Zhou, J., Wolman, D., Pendharkar, A. V., Lansberg, M. G., Albers, G. W., Dodd, R., Do, H. M., Pulli, B., Heit, J. J., Telischak, N. A.
2023

- **Non-inferiority of deep learning ischemic stroke segmentation on non-contrast CT within 16-hours compared to expert neuroradiologists.** *Scientific reports*
Ostmeier, S., Axelrod, B., Verhaaren, B. F., Christensen, S., Mahammedi, A., Liu, Y., Pulli, B., Li, L., Zaharchuk, G., Heit, J. J.
2023; 13 (1): 16153
- **Prediction of delayed cerebral ischemia after cerebral aneurysm rupture using explainable machine learning approach.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Taghavi, R. M., Zhu, G., Wintermark, M., Kuraitis, G. M., Sussman, E. S., Pulli, B., Biniam, B., Ostmeier, S., Steinberg, G. K., Heit, J. J.
2023: 15910199231170411
- **A case of recurrent aneurysm resulting from dual antiplatelet plus anticoagulation after confirmed aneurysm closure following coil-assisted flow diversion.** *Radiology case reports*
Geisbush, T. R., Pulli, B., Wolman, D. N., Pendharkar, A. V., Telischak, N. A.
2022; 17 (11): 4075-4078
- **Myeloperoxidase exerts anti-tumor activity in glioma after radiotherapy** *NEOPLASIA*
Ali, M., Fulci, G., Grigalavicius, M., Pulli, B., Li, A., Wojtkiewicz, G. R., Wang, C., Hsieh, K., Linnoila, J. J., Theodossiou, T. A., Chen, J. W.
2022; 26: 100779
- **Computed Tomography-Based Imaging Algorithms for Patient Selection in Acute Ischemic Stroke.** *Neuroimaging clinics of North America*
Pulli, B., Heit, J. J., Wintermark, M.
2021; 31 (2): 235-50
- **Intraoperative Neuromonitoring for Cerebral Arteriovenous Malformation Embolization: A Propensity-Score Matched Retrospective Database Study.** *Cureus*
Feng, A. Y., Sussman, E. S., Jin, M. C., Wong, S., Lopez, J., Pulli, B., Heit, J. J., Telischak, N.
2021; 13 (1): e12946
- **The Promise of Dual-Energy CT in Stroke and Neurovascular Imaging.** *World neurosurgery*
Wolman, D. N., Pulli, B. n., Heit, J. J.
2021; 146: 379-80
- **Multimodal cerebral arteriovenous malformation treatment: a 12-year experience and comparison of key outcomes to ARUBA** *JOURNAL OF NEUROSURGERY*
Pulli, B., Chapman, P. H., Ogilvy, C. S., Patel, A. B., Stapleton, C. J., Leslie-Mazwi, T. M., Hirsch, J. A., Carter, B. S., Rabinov, J. D.
2020; 133 (6): 1792-1801
- **Efficacy and safety of embolization of dural arteriovenous fistulas via the ophthalmic artery.** *Interventional neuroradiology : journal of peritherapeutic neuroradiology, surgical procedures and related neurosciences*
Mayercik, V. A., Sussman, E. S., Pulli, B., Dodd, R. L., Do, H. M., Telischak, N. A., Marks, M. P., Steinberg, G. K., Chang, S. D., Heit, J. J.
2020: 1591019920969270
- **Comparison of predictive grading systems for procedural risk in endovascular treatment of brain arteriovenous malformations: analysis of 104 consecutive patients** *JOURNAL OF NEUROSURGERY*
Pulli, B., Stapleton, C. J., Walcott, B. P., Koch, M. J., Raymond, S. B., Leslie-Mazwi, T. M., Rabinov, J. D., Patel, A. B.
2020; 133 (2): 342-350
- **Dual antiplatelet therapy after carotid artery stenting: trends and outcomes in a large national database.** *Journal of neurointerventional surgery*
Sussman, E. S., Jin, M. n., Pendharkar, A. V., Pulli, B. n., Feng, A. n., Heit, J. J., Telischak, N. A.
2020
- **Initial experience with the Scepter Mini dual-lumen balloon for transophthalmic artery embolization of anterior cranial fossa dural arteriovenous fistulae.** *Journal of neurointerventional surgery*
Pulli, B. n., Sussman, E. S., Mayercik, V. n., Steinberg, G. K., Do, H. M., Heit, J. J.
2020
- **Myeloperoxidase Molecular MRI Reveals Synergistic Combination Therapy in Murine Experimental Autoimmune Neuroinflammation** *RADIOLOGY*
Li, A., Wu, Y., Pulli, B., Wojtkiewicz, G. R., Iwamoto, Y., Wang, C., Li, J., Ali, M., Feng, X., Yao, Z., Chen, J. W.
2019; 293 (1): 158-165
- **Mouse model of anti-NMDA receptor post-herpes simplex encephalitis** *NEUROLOGY-NEUROIMMUNOLOGY & NEUROINFLAMMATION*
Linnoila, J., Pulli, B., Armangue, T., Planaguma, J., Narsimhan, R., Schob, S., Zeller, M. G., Dalmau, J., Chen, J.

2019; 6 (2): e529

- **Multimodal Molecular Imaging Demonstrates Myeloperoxidase Regulation of Matrix Metalloproteinase Activity in Neuroinflammation** *MOLECULAR NEUROBIOLOGY*
Zhang, Y., Dong, H., Seeburg, D. P., Wojtkiewicz, G. R., Waterman, P., Pulli, B., Forghani, R., Ali, M., Iwamoto, Y., Swirski, F. K., Chen, J. W.
2019; 56 (2): 954-962
- **A versatile imaging platform with fluorescence and CT imaging capabilities that detects myeloperoxidase activity and inflammation at different scales** *THERANOSTICS*
Wang, C., Pulli, B., Motlagh, N., Li, A., Wojtkiewicz, G. R., Schmidt, S. P., Wu, Y., Zeller, M. G., Chen, J. W.
2019; 9 (25): 7525-7536
- **Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimer's mouse model** *SCIENCE*
Choi, S., Bylykbashi, E., Chatila, Z. K., Lee, S. W., Pulli, B., Clemenson, G. D., Kim, E., Rompala, A., Oram, M. K., Asselin, C., Aronson, J., Zhang, C., Miller, et al
2018; 361 (6406): 991-+
- **Molecular MR Imaging of Myeloperoxidase Distinguishes Steatosis from Steatohepatitis in Nonalcoholic Fatty Liver Disease** *RADIOLOGY*
Pulli, B., Wojtkiewicz, G., Iwamoto, Y., Ali, M., Zeller, M. W., Bure, L., Wang, C., Choi, Y., Masia, R., Guimaraes, A. R., Corey, K. E., Chen, J. W.
2017; 284 (2): 390-400
- **Kawasaki disease with giant coronary artery aneurysms** *CORONARY ARTERY DISEASE*
Hedgire, S., Pulli, B., Lahoud-Rahme, M., Beroukhim, R. S., Rosales, A. M., Ghoshhajra, B.
2017; 28 (2): 177-179
- **Spinal Cord Inflammation: Molecular Imaging after Thoracic Aortic Ischemia Reperfusion Injury** *RADIOLOGY*
Albadawi, H., Chen, J. W., Oklu, R., Wu, Y., Wojtkiewicz, G., Pulli, B., Milner, J. D., Cambria, R. P., Watkins, M. T.
2017; 282 (1): 202-211
- **Myeloperoxidase Inhibition Improves Ventricular Function and Remodeling After Experimental Myocardial Infarction.** *JACC. Basic to translational science*
Ali, M., Pulli, B., Courties, G., Tricot, B., Sebas, M., Iwamoto, Y., Hilgendorf, I., Schob, S., Dong, A., Zheng, W., Skoura, A., Kalgukar, A., Cortes, et al
2016; 1 (7): 633-643
- **Surface biotinylation of cytotoxic T lymphocytes for in vivo tracking of tumor immunotherapy in murine models** *CANCER IMMUNOLOGY IMMUNOTHERAPY*
Li, A., Wu, Y., Linnoila, J., Pulli, B., Wang, C., Zeller, M., Ali, M., Lewandrowski, G. K., Li, J., Tricot, B., Keliher, E., Wojtkiewicz, G. R., Fulci, et al
2016; 65 (12): 1545-1554
- **Microstructural Changes in Absence Seizure Children: A Diffusion Tensor Magnetic Resonance Imaging Study** *PEDIATRICS AND NEONATOLOGY*
Liang, J., Lee, S., Pulli, B., Chen, J. W., Kao, S., Tsang, Y., Hsieh, K.
2016; 57 (4): 318-325
- **Myeloperoxidase Nuclear Imaging for Epileptogenesis** *RADIOLOGY*
Zhang, Y., Seeburg, D. P., Pulli, B., Wojtkiewicz, G. R., Bure, L., Atkinson, W., Schob, S., Iwamoto, Y., Ali, M., Zhang, W., Rodriguez, E., Milewski, A., Keliher, et al
2016; 278 (3): 822-830
- **Myeloperoxidase-Hepatocyte-Stellate Cell Cross Talk Promotes Hepatocyte Injury and Fibrosis in Experimental Nonalcoholic Steatohepatitis** *ANTIOXIDANTS & REDOX SIGNALING*
Pulli, B., Ali, M., Iwamoto, Y., Zeller, M. G., Schob, S., Linnoila, J. J., Chen, J. W.
2015; 23 (16): 1255-1269
- **Gelsolin decreases actin toxicity and inflammation in murine multiple sclerosis** *JOURNAL OF NEUROIMMUNOLOGY*
Li-ChunHsieh, K., Schob, S., Zeller, M. G., Pulli, B., Ali, M., Wang, C., Chiou, T., Tsang, Y., Lee, P., Stossel, T. P., Chen, J. W.
2015; 287: 36-42
- **Multiple Sclerosis: Myeloperoxidase Immunoradiology Improves Detection of Acute and Chronic Disease in Experimental Model** *RADIOLOGY*
Pulli, B., Bure, L., Wojtkiewicz, G. R., Iwamoto, Y., Ali, M., Li, D., Schob, S., Hsieh, K., Jacobs, A. H., Chen, J. W.
2015; 275 (2): 480-489

- **Molecular Imaging of Macrophage Enzyme Activity in Cardiac Inflammation** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
Ali, M., Pulli, B., Chen, J. W.
2014; 7 (4): 9258
- **Imaging Neuroinflammation - from Bench to Bedside.** *Journal of clinical & cellular immunology*
Pulli, B., Chen, J. W.
2014; 5
- **Measuring Myeloperoxidase Activity in Biological Samples** *PLOS ONE*
Pulli, B., Ali, M., Forghani, R., Schob, S., Hsieh, K. C., Wojtkiewicz, G., Linnoila, J. J., Chen, J. W.
2013; 8 (7): e67976
- **Demyelinating Diseases: Myeloperoxidase as an Imaging Biomarker and Therapeutic Target** *RADIOLOGY*
Forghani, R., Wojtkiewicz, G. R., Zhang, Y., Seeburg, D., Bautz, B. M., Pulli, B., Milewski, A. R., Atkinson, W. L., Iwamoto, Y., Zhang, E. R., Etzrodt, M., Rodriguez, E., Robbins, et al
2012; 263 (2): 451-460
- **Repeat Rates in Digital Chest Radiography and Strategies for Improvement** *JOURNAL OF THORACIC IMAGING*
Fintelmann, F., Pulli, B., Abedi-Tari, F., Trombley, M., Shore, M., Shepard, J., Rosenthal, D. I.
2012; 27 (3): 148-151
- **Ligation of the Jugular Veins Does Not Result in Brain Inflammation or Demyelination in Mice** *PLOS ONE*
Atkinson, W., Forghani, R., Wojtkiewicz, G. R., Pulli, B., Iwamoto, Y., Ueno, T., Waterman, P., Truelove, J., Oklu, R., Chen, J. W.
2012; 7 (3): e33671
- **Evaluating the safety and effectiveness of percutaneous acetabuloplasty** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Gupta, A. C., Hirsch, J. A., Chaudhry, Z. A., Chandra, R. V., Pulli, B., Galinsky, J. G., Hirsch, A. E., Yoo, A. J.
2012; 4 (2): 134-138
- **Acute Ischemic Stroke: Infarct Core Estimation on CT Angiography Source Images Depends on CT Angiography Protocol** *RADIOLOGY*
Pulli, B., Schaefer, P. W., Hakimelahi, R., Chaudhry, Z. A., Lev, M. H., Hirsch, J. A., Gonzalez, R., Yoo, A. J.
2012; 262 (2): 593-604
- **Imaging-based treatment selection for intravenous and intra-arterial stroke therapies: a comprehensive review** *EXPERT REVIEW OF CARDIOVASCULAR THERAPY*
Yoo, A. J., Pulli, B., Gonzalez, R.
2011; 9 (7): 857-876
- **Semiautomated Fluoroscopy Radiation Dose Capture and Reporting** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Pulli, B., Fintelmann, F., Liu, B., Rosenthal, D. I.
2010; 195 (5): 1180-1182