

# Stanford

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## Elizabeth Tong

Clinical Assistant Professor, Radiology - Pediatric Radiology

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Radiology Clinic**

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### Bio

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#### CLINICAL FOCUS

- Neuroradiology

#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiology - Pediatric Radiology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

#### PROFESSIONAL EDUCATION

- Fellowship: UCSF Dept of Radiology (2018) CA
- Fellowship: Stanford University Neuroradiology Fellowship (2019) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2018)
- Residency: University of Virginia School of Medicine (2016) VA
- Internship: Wake Forest Baptist Medical Center (2012)
- Medical Education: University of California, San Diego (2011) CA

### Publications

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#### PUBLICATIONS

- **Erratum: "MRI pulse sequence integration for deep-learning-based brain metastases segmentation"**. *Medical physics*  
Yi, D., Grøvik, E., Tong, E., Iv, M., Emblem, K. E., Nilsen, L. B., Saxhaug, C., Latysheva, A., Jacobsen, K. D., Helland, Å., Zaharchuk, G., Rubin, D.  
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- **Short- and Long-Term MRI Assessed Hemodynamic Changes in Pediatric Moyamoya Patients After Revascularization**. *Journal of magnetic resonance imaging : JMRI*  
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2023
- **Spinal Neurofibromatosis (NF): A Variant Phenotype of NF1**. *The Journal of pediatrics*  
Rogawski, D. S., Tong, E., Campen, C.  
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- **Measuring Quantitative Cerebral Blood Flow in Healthy Children: A Systematic Review of Neuroimaging Techniques**. *Journal of magnetic resonance imaging : JMRI*

- Zhao, M. Y., Tong, E., Duarte Armindo, R., Woodward, A., Yeom, K. W., Moseley, M. E., Zaharchuk, G.  
2023
- **Human habit neural circuitry may be perturbed in eating disorders.** *Science translational medicine*  
Wang, A. R., Kuijper, F. M., Barbosa, D. A., Hagan, K. E., Lee, E., Tong, E., Choi, E. Y., McNab, J. A., Bohon, C., Halpern, C. H.  
2023; 15 (689): eabo4919
  - **Revascularization improves vascular hemodynamics - a study assessing cerebrovascular reserve and transit time in Moyamoya patients using MRI.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*  
Zhao, M. Y., Armindo, R. D., Gauden, A. J., Yim, B., Tong, E., Moseley, M., Steinberg, G. K., Zaharchuk, G.  
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  - **Intracranial Artery Morphology in Pediatric Moya Moya Disease and Moya Moya Syndrome.** *Neurosurgery*  
Yedavalli, V. S., Quon, J. L., Tong, E., van Staaldunen, E. K., Mouches, P., Kim, L. H., Steinberg, G. K., Grant, G. A., Yeom, K. W., Forkert, N. D.  
2022
  - **Stemming the Tide of Gastrointestinal Chronic Granulomatous Disease.** *Digestive diseases and sciences*  
Cagil, Y., Tong, E., Guimaraes, C., Andrews, J., Abu El Haija, M., Triadafilopoulos, G., Yeh, A. M., Shah, A.  
2022
  - **2.5D and 3D segmentation of brain metastases with deep learning on multinational MRI data.** *Frontiers in neuroinformatics*  
Ottesen, J. A., Yi, D., Tong, E., Iv, M., Latysheva, A., Saxhaug, C., Jacobsen, K. D., Helland, Å., Emblem, K. E., Rubin, D. L., Bjørnerud, A., Zaharchuk, G., Grøvik, et al  
2022; 16: 1056068
  - **Early Onset Diffusion Abnormalities in Refractory Headache Disorders.** *Frontiers in neurology*  
Santoro, J. D., Moon, P. K., Han, M., McKenna, E. S., Tong, E., MacEachern, S. J., Forkert, N. D., Yeom, K. W.  
2022; 13: 898219
  - **A Case-Based Review of Cerebral Venous Infarcts With Perfusion Imaging and Comparison to Arterial Ischemic Stroke.** *Frontiers in radiology*  
Li, A. Y., Tong, E., Yedavalli, V. S.  
2021; 1: 687045
  - **Machine Learning Approach to Differentiation of Peripheral Schwannomas and Neurofibromas: A Multi-Center Study.** *Neuro-oncology*  
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  - **Machine-learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study**  
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  - **Dopamine-Related Alterations of Frontostriatal Habit Circuitry Underlie Stimulus-Response Binge Eating**  
Wang, A., Kuijper, F. M., Barbosa, D., Hagan, K., Lee, E., Tong, E., Bohon, C., Halpern, C. H.  
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  - **Maximizing the use of batch production of 18F-FDOPA for imaging of brain tumors to increase availability of hybrid PET/MR imaging in clinical setting.** *Neuro-oncology practice*  
Aboian, M., Barajas, R., Shatalov, J., Ravanfar, V., Bahroos, E., Tong, E., Taylor, J. W., Bush, N. O., Sneed, P., Seo, Y., Cha, S., Hernandez-Pampaloni, M.  
2021; 8 (1): 91-97
  - **High-resolution Structural Magnetic Resonance Imaging and Quantitative Susceptibility Mapping.** *Magnetic resonance imaging clinics of North America*  
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  - **Handling missing MRI sequences in deep learning segmentation of brain metastases: a multicenter study.** *NPJ digital medicine*

- Grøvik, E. n., Yi, D. n., Iv, M. n., Tong, E. n., Nilsen, L. B., Latysheva, A. n., Saxhaug, C. n., Jacobsen, K. D., Helland, Å. n., Emblem, K. E., Rubin, D. L., Zaharchuk, G. n.  
2021; 4 (1): 33
- **MRI pulse sequence integration for deep-learning-based brain metastases segmentation.** *Medical physics*  
Yi, D., Grøvik, E., Tong, E., Iv, M., Emblem, K. E., Nilsen, L. B., Saxhaug, C., Latysheva, A., Jacobsen, K. D., Helland, Å., Zaharchuk, G., Rubin, D.  
2021
  - **Non-contrast dual-energy CT virtual ischemia maps accurately estimate ischemic core size in large-vessel occlusive stroke.** *Scientific reports*  
Wolman, D. N., van Ommen, F. n., Tong, E. n., Kauw, F. n., Dankbaar, J. W., Bennink, E. n., de Jong, H. W., Molvin, L. n., Wintermark, M. n., Heit, J. J.  
2021; 11 (1): 6745
  - **GENOME ASSOCIATIONS WITH NEUROCOGNITIVE OUTCOMES, CEREBRAL MICROBLEEDS (CMBS), AND BRAIN VOLUME AND WHITE MATTER (WM) CHANGES IN PEDIATRIC BRAIN TUMOR SURVIVORS**  
Kline, C., Stoller, S., Byer, L., Edwards, C., Prasad, R., Torkildson, J., Gauvain, K., Samuel, D., Lupo, J., Morrison, M., Tong, E., Savchuk, S., Valencia, et al  
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  - **GENOME ASSOCIATIONS WITH NEUROCOGNITIVE OUTCOMES, CEREBRAL MICROBLEEDS (CMBS), AND BRAIN VOLUME AND WHITE MATTER (WM) CHANGES IN PEDIATRIC BRAIN TUMOR SURVIVORS**  
Kline, C., Stoller, S., Byer, L., Edwards, C., Prasad, R., Torkildson, J., Gauvain, K., Samuel, D., Lupo, J., Morrison, M., Tong, E., Savchuk, S., Valencia, et al  
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  - **Synthesize High-Quality Multi-Contrast Magnetic Resonance Imaging From Multi-Echo Acquisition Using Multi-Task Deep Generative Model** *IEEE TRANSACTIONS ON MEDICAL IMAGING*  
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  - **Artificial intelligence in stroke imaging: Current and future perspectives.** *Clinical imaging*  
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2020; 69: 246–54
  - **Deep Learning Enables Automatic Detection and Segmentation of Brain Metastases on Multisequence MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Grovik, E., Yi, D., Iv, M., Tong, E., Rubin, D., Zaharchuk, G.  
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  - **A within-coil optical prospective motion-correction system for brain imaging at 7T.** *Magnetic resonance in medicine*  
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  - **Artificial Intelligence and Stroke Imaging: A West Coast Perspective.** *Neuroimaging clinics of North America*  
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  - **The Potential Utility of Arterial Spin Labeling in Detecting and Localizing Posterior Circulation Occlusions in Every Day Practice: A Clinical Report of Selected Cases.** *Journal of clinical imaging science*  
Yedavalli, V., Tong, E.  
2020; 10: 78
  - **Deep learning enables automatic detection and segmentation of brain metastases on multisequence MRI.** *Journal of magnetic resonance imaging : JMRI*  
Grøvik, E. n., Yi, D. n., Iv, M. n., Tong, E. n., Rubin, D. n., Zaharchuk, G. n.  
2019
  - **Time-resolved CT assessment of collaterals as imaging biomarkers to predict clinical outcomes in acute ischemic stroke** *NEURORADIOLOGY*  
Tong, E., Patrie, J., Tong, S., Evans, A., Michel, P., Eskandari, A., Wintermark, M.

2017; 59 (11): 1101-1109

- **Understanding the Neurophysiology and Quantification of Brain Perfusion.** *Topics in magnetic resonance imaging*

Tong, E., Sugrue, L., Wintermark, M.

2017; 26 (2): 57-65

- **One-stop-shop stroke imaging with functional CT** *EUROPEAN JOURNAL OF RADIOLOGY*

Tong, E., Komlosi, P., Wintermark, M.

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- **One-stop-shop stroke imaging with functional CT.** *European journal of radiology*

Tong, E., Komlosi, P., Wintermark, M.

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