

# Stanford

---

## Elizabeth Tong

Assistant Professor of Radiology (Pediatric Radiology)

Radiology - Pediatric Radiology

### CLINICAL OFFICES

- **Pediatric Radiology Clinic**

725 Welch Rd Rm 1860

Palo Alto, CA 94304

**Tel** (650) 723-8463      **Fax** (650) 723-1909

### Bio

---

### CLINICAL FOCUS

- Diagnostic Radiology

### ACADEMIC APPOINTMENTS

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

### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Neuroradiology Fellowship (2019) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2018)
- Fellowship: UCSF Neuroradiology Fellowship (2018) CA
- 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

---

### PUBLICATIONS

- **Machine Learning Approach to Differentiation of Peripheral Schwannomas and Neurofibromas: A Multi-Center Study.** *Neuro-oncology*  
Zhang, M., Tong, E., Wong, S., Hamrick, F., Mohammadzadeh, M., Rao, V., Pendleton, C., Smith, B. W., Hug, N. F., Biswal, S., Seekins, J., Napel, S., Spinner, et al  
2021
- **Machine-learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study**  
Zhang, M., Tong, E., Hamrick, F., Pendleton, C., Smith, B., Hug, N., Mattonen, S., Napel, S., Spinner, R., Yeom, K., Wilson, T., Mahan, M.  
AMER ASSOC NEUROLOGICAL SURGEONS.2021
- **Machine-Learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study.** *Neurosurgery*  
Zhang, M., Tong, E., Hamrick, F., Lee, E. H., Tam, L. T., Pendleton, C., Smith, B. W., Hug, N. F., Biswal, S., Seekins, J., Mattonen, S. A., Napel, S., Campen, et al  
2021

- **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.  
ELSEVIER SCIENCE INC.2021: S233-S234
- **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*  
Yedavalli, V., DiGiacomo, P., Tong, E., Zeineh, M.  
2021; 29 (1): 13–39
- **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  
OXFORD UNIV PRESS INC.2020: 440
- **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  
OXFORD UNIV PRESS INC.2020: 145
- **Synthesize High-Quality Multi-Contrast Magnetic Resonance Imaging From Multi-Echo Acquisition Using Multi-Task Deep Generative Model** *IEEE TRANSACTIONS ON MEDICAL IMAGING*  
Wang, G., Gong, E., Banerjee, S., Martin, D., Tong, E., Choi, J., Chen, H., Wintermark, M., Pauly, J. M., Zaharchuk, G.  
2020; 39 (10): 3089–99
- **Artificial intelligence in stroke imaging: Current and future perspectives.** *Clinical imaging*  
Yedavalli, V. S., Tong, E. n., Martin, D. n., Yeom, K. W., Forkert, N. D.  
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.  
2020; 51 (1): 175–82
- **Advanced Imaging of Brain Metastases: From Augmenting Visualization and Improving Diagnosis to Evaluating Treatment Response.** *Frontiers in neurology*  
Tong, E. n., McCullagh, K. L., Iv, M. n.  
2020; 11: 270
- **A within-coil optical prospective motion-correction system for brain imaging at 7T.** *Magnetic resonance in medicine*  
DiGiacomo, P. n., Maclaren, J. n., Aksoy, M. n., Tong, E. n., Carlson, M. n., Lanzman, B. n., Hashmi, S. n., Watkins, R. n., Rosenberg, J. n., Burns, B. n., Skloss, T. W., Rettmann, D. n., Rutt, et al  
2020
- **Artificial Intelligence and Stroke Imaging: A West Coast Perspective.** *Neuroimaging clinics of North America*

---

Zhu, G. n., Jiang, B. n., Chen, H. n., Tong, E. n., Xie, Y. n., Faizy, T. D., Heit, J. J., Zaharchuk, G. n., Wintermark, M. n.  
2020; 30 (4): 479–92

- **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 : JMIR*  
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.  
2015; 84 (12): 2425-2431
- **One-stop-shop stroke imaging with functional CT.** *European journal of radiology*  
Tong, E., Komlosi, P., Wintermark, M.  
2015; 84 (12): 2425-31