

Elizabeth Tong

Bio

ACADEMIC APPOINTMENTS

- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

Publications

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 : JMIR*
Zhao, M. Y., Tong, E., Duarte Armindo, R., Fettahoglu, A., Choi, J., Bagley, J., Yeom, K. W., Moseley, M., Steinberg, G. K., Zaharchuk, G.
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- **Spinal Neurofibromatosis (NF): A Variant Phenotype of NF1.** *The Journal of pediatrics*
Rogawski, D. S., Tong, E., Campen, C.
2023: 113571
- **Measuring Quantitative Cerebral Blood Flow in Healthy Children: A Systematic Review of Neuroimaging Techniques.** *Journal of magnetic resonance imaging : JMIR*
Zhao, M. Y., Tong, E., Duarte Armindo, R., Woodward, A., Yeom, K. W., Moseley, M. E., Zaharchuk, G.
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- **Human habit neural circuitry may be perturbed in eating disorders.** *Science translational medicine*
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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 Staalduinen, 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*
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
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- **Machine-learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study**
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- **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
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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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2021; 8 (1): 91–97
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Yedavalli, V., DiGiacomo, P., Tong, E., Zeineh, M.
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- **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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- **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*
Yedavalli, V. S., Tong, E. n., Martin, D. n., Yeom, K. W., Forkert, N. D.
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2020; 51 (1): 175–82
- **Advanced Imaging of Brain Metastases: From Augmenting Visualization and Improving Diagnosis to Evaluating Treatment Response.** *Frontiers in neurology*
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- **Deep learning enables automatic detection and segmentation of brain metastases on multisequence MRI.** *Journal of magnetic resonance imaging : JMIR*
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- **Time-resolved CT assessment of collaterals as imaging biomarkers to predict clinical outcomes in acute ischemic stroke** *NEURORADIOLOGY*
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- **Understanding the Neurophysiology and Quantification of Brain Perfusion.** *Topics in magnetic resonance imaging*
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- **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