






Haocheng Dai

CONTACT INFORMATION	haocheng.dai@utah.edu https://users.cs.utah.edu/~haocheng/
EDUCATION	<div><div>University of Utah Ph.D. Student in Computer Science Committee: <i>SC Joshi (Chair), M Bauer, PT Fletcher, RM Kirby, RT Whitaker</i> Geometric Deep Learning, Physics-Informed Machine Learning</div><div>Tongji University Bachelor of Engineering in Computer Science</div><div>Institut de Mathématiques de Toulouse Exchange Student</div><div>Technion - Israel Institute of Technology Exchange Student</div></div> <div><i>Salt Lake City, UT</i> <i>2024</i> <i>Shanghai, China</i> <i>2019</i> <i>Toulouse, France</i> <i>2019</i> <i>Haifa, Israel</i> <i>2018</i></div>
PUBLICATIONS	<p>Neural Operator Learning for Ultrasound Tomography Inversion, H. Dai*, M. Penwarden*, R. M. Kirby, S. C. Joshi (*equal contribution), <i>International Conference on Medical Imaging with Deep Learning (MIDL) 2023</i>, .</p> <p>High Fidelity, CT on Rails-based Characterization of Total Delivered Dose Variation for Conformal Head and Neck Treatment: With Evaluation of Adaptive Replanning Time-point Implications, H. Dai, V. Sarkar, C. Dial, M. Foote, S. C. Joshi, B. J. Salter, <i>Under Review at Physics in Medicine & Biology</i>, .</p> <p>Modeling the Shape of the Brain Connectome via Deep Neural Networks, H. Dai, M. Bauer, P. T. Fletcher, S. C. Joshi, <i>International Conference on Information Processing in Medical Imaging (IPMI) 2023</i>, Oral Presentation, .</p> <p>Integrated Construction of Multimodal Atlases with Structural Connectomes in the Space of Riemannian Metrics, K. M. Campbell, H. Dai, Z. Su, M. Bauer, P. T. Fletcher, S. C. Joshi, <i>Journal of Machine Learning for Biomedical Imaging (MELBA) 2022</i>, .</p> <p>Structural Connectome Atlas Construction in the Space of Riemannian Metrics, K. M. Campbell, H. Dai, Z. Su, M. Bauer, P. T. Fletcher, S. C. Joshi, <i>International Conference on Information Processing in Medical Imaging (IPMI) 2021</i>, François Erbsmann Prize (Best Paper Award), .</p>
INDUSTRY EXPERIENCE	<div><div>Amazon Applied Scientist Intern: <i>Text-Image Fusion</i> Applied Scientist Intern: <i>Visual Documents Understanding</i></div><div><i>Seattle, WA</i> <i>2023</i> <i>2022</i></div></div>
TEACHING EXPERIENCE	<div><div>Teaching Mentor CS 4150: <i>Algorithms</i> CS 3190: <i>Foundations of Data Analysis</i></div><div><i>University of Utah</i> <i>2022</i> <i>2021</i></div></div>
HONORS& AWARDS	<p>François Erbsmann Prize (Best Paper Award), <i>IPMI 2021</i> Department Fellowship, <i>School of Computing, University of Utah</i> Tongji Scholarship of Excellence (2016, 2017, 2018), <i>Tongji University</i></p>