






Haocheng Dai

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EDUCATION	University of Utah Ph.D. Student, Computer Science Advisor: Sarang Joshi Research Interests: Geometric Deep Learning, Physics-Informed Machine Learning	<i>Salt Lake City, UT</i> <i>2019 - 2024</i>
	Tongji University B.Eng., Computer Science	<i>Shanghai, China</i> <i>2015 - 2019</i>
	Institut de Mathématiques de Toulouse Exchange Student	<i>Toulouse, France</i> <i>2019</i>
	Technion - Israel Institute of Technology Exchange Student	<i>Haifa, Israel</i> <i>2018</i>
PUBLICATIONS	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> ,  .	
	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> ,  .	
	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,  .	
	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> ,  .	
	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),  .	
INDUSTRY EXPERIENCE	Amazon.com, Inc. Applied Scientist Intern, <i>Fraud Documents Generation and Discrimination</i> Applied Scientist Intern, <i>Multimodal Visual Documents Understanding</i>	<i>Seattle, WA</i> <i>2023</i> <i>2022</i>
TEACHING EXPERIENCE	Teaching Mentor CS 4150: Algorithms CS 3190: Foundations of Data Analysis	<i>University of Utah</i> <i>2022</i> <i>2021</i>
HONORS& AWARDS	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>	