Wenjun Wu
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Publications

Publications	2024	Semantics-Aware Attention Guidance for Diagnosing Whole Slide Images Liu K.*, **Wu W.***, Elmore J., Shapiro L. (*: Equal Contribution) *arXiv preprint arXiv:2404.10894 (2024)*
Google Scholar	2023	VSGD-Net: Virtual Staining Guided Melanocyte Detection on Histopathological Images Liu K., Li B., **Wu W.**, Shapiro L., Elmore J., Knezevich S., Chang O., May C., Reisch L., Elmore J., Shapiro L. *IEEE Winter Conference on Applications of Computer Vision, 2023*
	2022	Automated Analysis of Whole Slide Digital Skin Biopsy Images Nofallah S., **Wu W.**, Liu K., Ghezloo F., Elmore J., Shapiro L. *Frontiers in Artificial Intelligence*
	2022	End-to-End Diagnosis of Breast Biopsy Images with Transformers Mehta S., Lu. X, **Wu. W**, Weaver D., Hajishirzi H., Elmore J. G., Shapiro. L. G. *Medical Image Analysis, 79, 2022.*
	2022	Improving the Diagnosis of Skin Biopsies Using Tissue Segmentation Nofallah S., Li B., Mokhtari M., **Wu W.**, Knezevich S., May C. J., Chang O. H., Elmore J. G., Shapiro L. G. *Diagnostics, Vol. 12, 2022.*
	2022	Segmenting Skin Biopsy Images with Coarse and Sparse Annotations using U-Net Nofallah S., Mokhtari M., **Wu W.**, Mehta S., Knezevich S., May C. J., Chang O. H., Lee A. C., Elmore J. G., Shapiro L. G. *Journal of Digital Imaging, April 2022.*
	2021	Scale-Aware Transformers for Diagnosing Skin Biopsy Images **Wu W.**, Mehta S., Nofallah S., Knezevich S., May C. J., Chang O., Elmore J. G., Shapiro L. G. *IEEE Access, vol. 9, pp. 163526-163541, 2021*
	2021	Applications of the ESPNet architecture in medical imaging in State of the Art of Neural Networks and their Applications Mehta S., Nuechterlein N., Mercan E., Li B., Nofallah S., **W. Wu**, Lu X., Caspi A., Rastegari M., Elmore J., Hajishirzi H., Shapiro. L. *Academic Press, Vol. 1, 2021, pp. 117-131.*
	2020	MLCD: A Unified Software Package for Cancer Diagnosis **Wu W.**, *Li B., Ezgi M., Mehta S., Bartlett J., Weaver D., Elmore J., Shapiro L.* JCO Clinical Cancer Informatics 4, 290-298, 2020 [website]
	2020	Comparison of Fontan Surgical Options for Patients with Apicocaval Juxtaposition

*Wei Z., Johnson C., Trusty P., Stephens M., **Wu W.**, Sharon R., Srimurugan B., Kottayil B., Sunil G., Fogel M., Yoganathan A., Kappanayil M*
Pediatric Cardiology, 1-10, 2020

	2018	The advantages of viscous dissipation rate over simplified power loss as a Fontan hemodynamic metric *Wei Z., Tree M., Trusty P., **Wu W.**, Singh-Gryzbon S., Yoganathan A.* 2018 Annals of biomedical engineering 46 (3), 404-416
	2017	11C-PIB PET image analysis for Alzheimer's diagnosis using weighted voting ensembles **Wu W.**, Venugopalan J., Wang M. IEEE Engineering in Medicine and Biology Society (EMBC 2017)
Experience	2022 Fall	**ML Engineering Intern**, *Meta*, Business Integrity Team. Advisor: Yash Upadhyay Optimized video integrity models for back-compatibility to minimize the effect of content shifting and declining performance.
	2022 Summer	**Research Intern**, *Microsoft Research*, BioML Group. Advisor: Alex Lu, Kristen Severson Developed self-supervised training methods for detecting Parkinson's Disease from whole slide images
	2021 Summer	**Vision Intern**, *Intuitive Surgical*, Vision NPI Team Mentor: Fenglei Du Solved viewer alignment problem on Da Vinci Surgical System with 7 degrees of freedom by leveraging reinforcement learning.
	2018 Summer	**ML Intern**, *Siemens*, Product Design, Modeling and Simulation Team Mentor: Janani Venugopalan Apply machine learning for computer-aided CNC machining of 3D objects.
Education	2017 - 2023 (expected)	**University of Washington, Seattle, WA** Ph.D., Biomedical Informatics Advisor: Linda Shapiro Overall GPA: 3.72/4.00
	2013 - 2017	**Georgia Institute of Technology** B.S. in Biomedical Engineering Advisor: May Wang, Ajit Yoganathan Overall GPA: 3.83/4.00
Teaching	2022	**CSE 473** Intro to Artificial Intelligence, TA
	2022	**CSE 576** Computer Vision, TA
	2017 - 2023	**CSE 373** Data Structure and Algorithm, TA
Awards	2017	**President Research Award**, *Georgia Institute of Technology*
	2016, 2017	**Faculty Honors**, *Georgia Institute of Technology*
	2014, 2015	**Dean's list**, *Georgia Institute of Technology*