

Seonghui Min

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RESEARCH INTERESTS	Deep Learning, Computer Vision, Generative AI, Label-Efficient Learning, Medical Image Analysis
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EDUCATION	M.S. in Computer Science and Engineering, Korea University Advisor: Prof. Won-Ki Jeong - GPA: 4.11/4.5	Mar. 2022 - Feb. 2024
	B.S. in Biomedical Engineering, Korea University - GPA: 3.94/4.5	Mar. 2018 - Feb. 2022

PUBLICATIONS	Conference Proceedings (* equal contribution)	
	[C-03] Seonghui Min*, Hyun-Jic Oh*, Won-Ki Jeong “Co-synthesis of Histopathology Nuclei Image-Label Pairs using a Context-Conditioned Joint Diffusion Model”, <i>European Conference on Computer Vision (ECCV)</i> , 2024.	
	[C-02] SeungKyu Kim, Hyun-Jic Oh, Seonghui Min, Won-Ki Jeong “Evaluation and improvement of Segment Anything Model for interactive histopathology image segmentation”, <i>MICCAI 2023 Workshop MedAGI (MICCAIW)</i> , 2023.	
	[C-01] Seonghui Min, Won-Ki Jeong “CGAM: click-guided attention module for interactive pathology image segmentation via backpropagating refinement”, <i>IEEE International Symposium on Biomedical Imaging (ISBI)</i> , 2023.	
	Journal Publications (* equal contribution)	
	[J-02] Hyun-Jic Oh*, Seonghui Min*, Won-Ki Jeong “S2L-CM: Scribble-supervised Nuclei Segmentation in Histopathology Images using Contrastive Regularization and Pixel-Level Multiple Instance Learning”, Under Review .	
	[J-01] Seonghui Min, Won-Ki Jeong “ZoomISEG: Interactive Multi-Scale Fusion for Histopathology Whole Slide Image Segmentation”, <i>Journal of the Korea Computer Graphics Society (KCGS)</i> , 2023.	

RESEARCH EXPERIENCE	Research Intern in HVCL, Korea University Advisor: Prof. Won-Ki Jeong - Interactive Tumor Region Segmentation in Histopathology Images	Sep. 2021 - Feb. 2022
	Research Intern in BREIN Lab, Korea University Advisor: Prof. Joon Kyung Seong - Regional Amyloid Positivity Prediction Using Brain MRI in Alzheimer’s Disease	Mar. 2021 - Aug. 2021

TEACHING	Special Lecture for Computer Science (COSE490) - Teaching Assistant at Korea University	<i>Fall 2022</i>
	Data Structure (COSE213) - Teaching Assistant at Korea University	<i>Spring 2022</i>
PROJECTS	Data Utilization Competition , Korea University <i>Team Member</i> - White Matter Lesion Segmentation in Multiple Sclerosis	<i>Fall 2021</i>
	Campus CEO Start-Up Competition , Korea University <i>Team Leader, 3rd Place</i> - Food Detection and Recognition for Inflammatory Bowel Disease Management	<i>Fall 2020</i>
EXTRA-CURRICULAR ACTIVITIES	BEAT , Student Research Group at Korea University <i>Group Member</i> - Deep Learning Theories and Research Paper Seminars	<i>Fall 2020 - Spring 2021</i>
SKILLS	Programming: Python, PyTorch, OpenCV, Matlab	
	Languages: Fluent in English, Native in Korean	
REFERENCES	Prof. Won-Ki Jeong Professor, Korea University Relationship: MS advisor Email: wkjeong@korea.ac.kr	