

# 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** *Mar. 2022 - Feb. 2024*  
Advisor: Prof. Won-Ki Jeong  
- GPA: 4.11/4.5

B.S. in Biomedical Engineering, **Korea University** *Mar. 2018 - Feb. 2022*  
- GPA: 3.94/4.5

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## 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”, *European Conference on Computer Vision (ECCV)*, 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”, *MICCAI 2023 Workshop MedAGI (MICCAIW)*, 2023.

[C-01] **Seonghui Min**, Won-Ki Jeong “CGAM: click-guided attention module for interactive pathology image segmentation via backpropagating refinement”, *IEEE International Symposium on Biomedical Imaging (ISBI)*, 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”, *Journal of the Korea Computer Graphics Society (KCGS)*, 2023.

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## RESEARCH EXPERIENCE

Research Intern in **HVCL, Korea University** *Sep. 2021 - Feb. 2022*  
Advisor: Prof. Won-Ki Jeong  
- Interactive Tumor Region Segmentation in Histopathology Images

Research Intern in **BREIN Lab, Korea University** *Mar. 2021 - Aug. 2021*  
Advisor: Prof. Joon Kyung Seong  
- Regional Amyloid Positivity Prediction Using Brain MRI in Alzheimer’s Disease

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