

# 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, <b>Korea University</b><br>Advisor: Prof. Won-Ki Jeong<br>- GPA: 4.11/4.5 | Mar. 2022 - Feb. 2024 |
|           | B.S. in Biomedical Engineering, <b>Korea University</b><br>- GPA: 3.94/4.5  | Mar. 2018 - Feb. 2022 |

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| PUBLICATIONS | <b>Conference Proceedings</b> (* equal contribution)   |  |
|              | <a href="#">[C-03]</a> 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.     |  |
|              | <a href="#">[C-02]</a> 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.    |  |
|              | <a href="#">[C-01]</a> 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.  |  |
|              | <b>Journal Publications</b> (* equal contribution)   |  |
|              | <a href="#">[J-02]</a> 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”, <b>Under Review</b> . |  |
|              | <a href="#">[J-01]</a> 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.                           |  |

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

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