Younjoon Chung

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Education

Yale University — New Haven, CT
Ph.D. in Computer Science — Aug 2024 - Aug 2025
Ph.D. in Computational Biology and Biomedical Informatics (CBB) — Sep 2025 - Present
Advisor: Prof. Qingyu Chen | Co-Advisor: Prof. Lucila Ohno-Machado

Carnegie Mellon University — Pittsburgh, PA
M.S. in Computer Vision (School of Computer Science) — Dec 2023
Advisor: Prof. Fernando De la Torre

Sogang University — Seoul, Korea
B.S. in Computer Science and Engineering — Feb 2018
GPA 3.58/4.30 (3.52/4.00), *Graduated with Magna Cum Laude*

Selected Publications

[1] **Y. Chung (*)**, H. Park (*), P. Rim (*), X. Zhang, J. He, Z. Zeng, S. Cicek, BW. Hong, J. Duncan, A. Wong, "ETA: Energy-based Test-time Adaptation for Depth Completion." ICCV 2025.
[2] P. Rim, H. Park, S. Gangopadhyay, Z. Zeng, **Y. Chung**, A. Wong, "ProtoDepth: Unsupervised Continual Depth Completion with Prototypes." CVPR 2025.
[3] YO. Wang (*), **Y. Chung (*)**, CH. Wu, F. De la Torre, "Domain Gap Embeddings for Generative Dataset Augmentation." CVPR 2024
[4] YC. Kim, **Y. Chung**, YH. Choe, "Deep learning for classification of late gadolinium enhancement lesions based on the 16-segment left ventricular model." Physica Medica, 2024
[6] YC. Kim, **Y. Chung**, YH. Choe, "Automatic localization of anatomical landmarks in cardiac MR Perfusion using random forests." Biomedical Signal Processing and Control, 2019

Academic Experience

Samsung Medical Center — Seoul, Korea
Undergrad Research Assistant — Jan 2016 – Mar 2018

- Advised by Prof. Yoon-Chul Kim.
- Developed PyQt tools for 4D MRI data labeling, published in Comput. Bio. Med.
- Built random-forest models for anatomical landmark detection, published in Biomed. Signal Process. Control.

Professional Experience

VUNO Inc. — Seoul, Korea
Research Engineer — Jun 2020 - Jun 2022

- Developed Residual 3D U-Net CADe model for lung nodules in CT scans. Deployed in VUNO Med®-LungCT AI™.
- Developed CADx system for Lung-RADS classification. Pending clinical trials.
- Optimized on-device CAD for Samsung's mobile digital X-ray GM85 Fit: 70% CPU speedup via OpenVINO.
- Developed automatic windowing parameter estimation method for Chest X-ray images. Abstract accepted as an oral presentation in RSNA 2021. [slides]

Selvas AI Inc. — Seoul, Korea
Software Engineer — Mar 2018 - Jun 2020

- Designed ML pipelines for developing OCR models, including data collection, labeling, training, evaluation.
- Developed FPN-based text localization models for Korean characters with 0.75 F1-score, on par with SoTA, as part of PoC projects with SK Telecom and Doosan Heavy Industries & Construction.

Open Source Contributions

25+ commits to Keras ecosystem (keras, keras-applications, keras-preprocessing). [link] [link] [link]
Maintainer, official Korean translation of Keras docs. [link]
Code contributions for data science handbook "Introduction to Practical Data Science." [link]
Code contributions to Matplotlib. [link]