Sangyoon Lee

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Education

University of Minnesota, Minneapolis, MN 55455 — 2023 – Present
Ph.D. in Medical Physics – CAMPEP accredited. — GPA: 3.67/4.00

Grinnell College, Grinnell, IA 50112 — 2018 – 2021
Bachelor of Arts in Physics — GPA: 3.67/4.00

Employment

University of Minnesota, Minneapolis, MN 55455 — 2023 – Present
- **Center for Magnetic Resonance Research**
  Graduate Research Assistant in *Patrick Bolan'*s Lab
- **Department of Radiation Oncology**
  Graduate Research Assistant in *Yoichi Watanabe'*s Lab

Asan Medical Center, Seoul, South Korea 05505 — 2022 – 2023
Medical AI Research Assistant in Namkug Kim's Lab

Publications & Conferences

(Accepted & Published)

[1] "A Deep Learning Approach for Placing Magnetic Resonance Spectroscopy Voxels in Brain Tumors." **Sangyoon Lee***; F. Branzoli; T. Nguyen; O. Andronesi; A. Lin; R. Liserre; G. Melkus; C. Chen; M. Marjanska; P. J. Bolan. MICCAI Conference, Oct 2024.

[2] "Generative Adversarial Network with Robust Discriminator Through Multi-Task Learning for Low-Dose CT Denoising." S. Kyung; S. Park; S. Kim; **Sangyoon Lee**; K. Park; G. Hong; N. Kim. IEEE TMI, Aug 2024.

[3] "Prediction of Heterogeneous Treatment Planning in Gamma Knife Radiosurgery using Homogeneous Plan with Conditional Generative Adversarial Network." **Sangyoon Lee***; Y. Watanabe. AAPM Annual Meeting, Jul 2024.

[4] "Analysis of MRS Voxel Placements in Brain Tumors Performed by MRS Experts." **Sangyoon Lee***; F Branzoli; O Andronesi; C. Chen; A. Lin; R. Liserre; G. Melkus; T. Nguyen; P. Bolan; M. Marjanska. ISMRM Conference, May 2024.

[5] "CT Kernel Conversion Using Unpaired Image Translation with Generator-Guided Contrastive Learning." C. Chang; J. Jeong; **Sangyoon Lee**; S.M. Lee; N. Kim. MICCAI Conference, Oct 2023**.**

(Under Review)

[6] "Deep Learning based Heterogeneity Correction of the Homogeneous Dose Distribution for Single Brain Tumors in Gamma Knife Radiosurgery." **Sangyoon Lee***; S. Mishra; Y. Watanabe. Practical Radiation Oncology, **Submitted.**

Fellowships, Grants & Awards

Conference Grant ($500), Department of Radiation Oncology, University of Minnesota, 2024.
Institute for Engineering in Medicine Walter Barnes Lang Fellowship ($1,500), University of Minnesota, 2024.
International Society for Magnetic Resonance in Medicine Annual Meeting 2024 Educational Grant ($875), 2024.
Career, Life & Service Center Research Grant ($3,200), Grinnell College, 2021.
Career, Life & Service Center Professional Grant ($1,000), Grinnell College, 2020, 2021.
Career, Life & Service Center Research Grant ($2,800), Grinnell College, 2019.
Korea's Promising Future Leaders Award ($3,000), Deputy Prime Minister, 2017.

References

Dr. Patrick Bolan
Professor, Department of Radiology, University of Minnesota

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Dr. Małgorzata Marjańska
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