

## Seung Hoon Yoo

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Present address:

Department of Radiation Oncology, CHA Bundang Medical Center, CHA University,  
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### Academic degree and education

- Doctor of Philosophy (Plasma physics)  
Department of Physics, Chung-Ang University, Korea, 2008
- M.Sc. (Plasma Physics)  
Department of Physics, Chung-Ang University, Korea, 2002
- BS  
Department of Physics, Chung-Ang University, Korea, 2000

### Academic and Research Experience

- Clinical Association Professor (Present)  
Department of Radiation Oncology, CHA Bundang Medical Center, CHA University
- Residency on Medical Physics (March 2010 – February 2012)  
Proton Therapy Center, National Cancer Center
- Post doctoral Fellow (July 2008 - February 2010)  
Center for Pioneering Medical Physics Research  
Research project : "Development of the Laser Wakefield Accelerator for Cancer Therapy"
- Research Fellow (June 2004 - May 2007)  
Center for Advanced Accelerator, Korea Electrotechnology Research Institute  
Research project : "Development of the Laser Plasma Accelerator"

### Awards and Honors

- Excellent Research Award  
Seung Hoon Yoo et. al, "Study on the variability of HDR ring applicator dwell position for the MRI based uterine cervix brachytherapy", Conference of the Korean Society for Therapeutic Radiology and Oncology, 2010
- Best Oral Presentation Award  
Seung Hoon Yoo et. al, "Feasibility Study on the Cancer Therapy Using Laser-accelerated Quasi-monoenergetic Proton Beam", Conference of the Korean Society of Medical Physics, 2010

### Professional Affiliations

- Korean Society of Medical Physics (KSMP)
- Korean Physical Society (KPS)
- Korean Society for Therapeutic Radiology and Oncology (KOSTRO)

### **Research Funding**

- "Development of the Table-Top Laser induced very-high energy electron beam accelerator for Cancer Therapy", PI, National Research Foundation of Korea, 2009-2010

### **Clinical Experience**

- Proton Therapy(brain, CSI, eye treatment, PAN, Pelvis) Planning and QA
- IMRT(head and neck, prostate), Arc Therapy(head and neck, prostate, SCL), SRS planning and QA
- TBI, TSEB, Eye gating treatment
- All aspects of machine calibration and dosimetry