

# Stanford

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## Shu-Jung Yu

Clinical Assistant Professor, Radiation Oncology - Radiation Physics

### Bio

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#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiation Oncology - Radiation Physics

#### HONORS AND AWARDS

- Cancer Center Clinical Innovation Fund, Stanford University (2020)
- SQIMM Award, Stanford University (2020)
- Teaching Award, Stanford University (2018)
- SQIMM Award, Stanford University (2017)
- Stanford Medicine Faculty Innovation Program (Co-PI), Stanford University (2015)
- Radiation Physics Impact Award, Stanford University (2014)
- Scholarship for nanostorage research from Ministry of economic affairs, NTU (2004)
- The AP-NFO student Award, 4th Asia-Pacific International Conference on near-field Optics (2003)

#### PROFESSIONAL EDUCATION

- DABR, The American Board of Radiology , Therapeutic Medical Physics (2015)
- Residency, Stanford University , Therapeutic Medical Physics (CAMPEP Accredited) (2014)
- Ph.D., University of California, Los Angeles , Biomedical Physics (CAMPEP Accredited) (2011)

### Publications

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#### PUBLICATIONS

- **The benefit of using the AAPM Journal app.** *Journal of applied clinical medical physics*  
Yu, A. S.  
2020
- **Patient motion tracking for non-isocentric and non-coplanar treatments via fixed frame-of-reference 3D camera.** *Journal of applied clinical medical physics*  
Gasparyan, S., Ko, K., Skinner, L. B., Ko, R. B., Loo, B. W., Fahimian, B. P., Yu, A. S.  
2020
- **An integrated quality assurance phantom for frameless single-isocenter multitarget stereotactic radiosurgery.** *Physics in medicine and biology*  
Capaldi, D. P., Skinner, L. B., Dubrowski, P., Yu, A. S.  
2020
- **FLASH Irradiation Results in Reduced Severe Skin Toxicity Compared to Conventional-Dose-Rate Irradiation.** *Radiation research*  
Soto, L. A., Casey, K. M., Wang, J., Blaney, A., Manjappa, R., Breikreutz, D., Skinner, L., Dutt, S., Ko, R. B., Bush, K., Yu, A. S., Melemenidis, S., Strober, et al

2020

- **Probing Estrogen Sulfotransferase-Mediated Inflammation with [11C]-PiB in the Living Human Brain.** *Journal of Alzheimer's disease : JAD*  
Surmak, A. J., Wong, K., Cole, G. B., Hirata, K., Aabedi, A. A., Mirfendereski, O., Mirfendereski, P., Yu, A. S., Huang, S., Ringman, J. M., Liebeskind, D. S., Barrio, J. R.  
2019
- **Tungsten filled 3D printed field shaping devices for electron beam radiation therapy.** *PloS one*  
Skinner, L., Fahimian, B. P., Yu, A. S.  
2019; 14 (6): e0217757
- **Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts.** *Technology in cancer research & treatment*  
Skinner, L. B., Yang, Y., Hsu, A., Xing, L., Yu, A. S., Niedermayr, T.  
2019; 18: 1533033819876897
- **Does 2-FDG-PET Accurately Reflect Quantitative In vivo Glucose Utilization?** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Barrio, J. R., Satyamurthy, N., Huang, S. C., Scafoglio, C., Yu, A., Alavi, A., Krohn, K. A.  
2019
- **A novel-integrated quality assurance phantom for radiographic and nonradiographic radiotherapy localization and positioning systems.** *Medical physics*  
Yu, A. S., Fowler, T. L., Dubrowski, P.  
2018
- **Using a handheld stereo depth camera to overcome limited field-of-view in simulation imaging for radiation therapy treatment planning** *MEDICAL PHYSICS*  
Jenkins, C., Xing, L., Yu, A.  
2017; 44 (5): 1857-1864
- **Dapagliflozin Binds Specifically to Sodium-Glucose Cotransporter 2 in the Proximal Renal Tubule** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*  
Ghezzi, C., Yu, A. S., Hirayama, B. A., Kepe, V., Liu, J., Scafoglio, C., Powell, D. R., Huang, S., Satyamurthy, N., Barrio, J. R., Wright, E. M.  
2017; 28 (3): 802-810
- **Intrafractional Tracking Accuracy of a Transperineal Ultrasound Image Guidance System for Prostate Radiotherapy.** *Technology in cancer research & treatment*  
Yu, A. S., Najafi, M., Hristov, D. H., Phillips, T.  
2017; 16 (6): 1067-78
- **Chest wall dose reduction using noncoplanar volumetric modulated arc radiation therapy for lung stereotactic ablative radiation therapy.** *Practical radiation oncology*  
Yu, A. S., Maxim, P. G., Loo, B. W., Gensheimer, M. F.  
2017
- **A Robust and Affordable Table Indexing Approach for Multi-isocenter Dosimetrically Matched Fields.** *Cureus*  
Yu, A., Fahimian, B., Million, L., Hsu, A.  
2017; 9 (5): e1270
- **Automating quality assurance of digital linear accelerators using a radioluminescent phosphor coated phantom and optical imaging.** *Physics in medicine and biology*  
Jenkins, C. H., Naczynski, D. J., Yu, S. S., Yang, Y., Xing, L.  
2016; 61 (17): L29-37
- **Anatomic optimization of lung tumor stereotactic ablative radiation therapy.** *Practical radiation oncology*  
Yu, A. S., von Eyben, R., Yamamoto, T., Diehn, M., Shultz, D. B., Loo, B. W., Maxim, P. G.  
2015; 5 (6): e607-13
- **Noninvasive pulmonary nodule elastometry by CT and deformable image registration.** *Radiotherapy and oncology*  
Negahdar, M., Fasola, C. E., Yu, A. S., von Eyben, R., Yamamoto, T., Diehn, M., Fleischmann, D., Tian, L., Loo, B. W., Maxim, P. G.  
2015; 115 (1): 35-40
- **Monitoring external beam radiotherapy using real-time beam visualization.** *Medical physics*

Jenkins, C. H., Naczynski, D. J., Yu, S. S., Xing, L.

2015; 42 (1): 5-?

- **Regional distribution of SGLT activity in rat brain in vivo** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*  
Yu, A. S., Hirayama, B. A., Timbol, G., Liu, J., Diez-Sampedro, A., Kepe, V., Satyamurthy, N., Huang, S., Wright, E. M., Barrio, J. R.  
2013; 304 (3): C240-C247
- **Functional expression of SGLTs in rat brain** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*  
Yu, A. S., Hirayama, B. A., Timbol, G., Liu, J., Basarah, E., Kepe, V., Satyamurthy, N., Huang, S., Wright, E. M., Barrio, J. R.  
2010; 299 (6): C1277-C1284
- **Quantification of Cerebral Glucose Metabolic Rate in Mice Using F-18-FDG and Small-Animal PET** *JOURNAL OF NUCLEAR MEDICINE*  
Yu, A. S., Lin, H., Huang, S., Phelps, M. E., Wu, H.  
2009; 50 (6): 966-973
- **In vivo quantitation of glucose metabolism in mice using small-animal PET and a microfluidic device** *JOURNAL OF NUCLEAR MEDICINE*  
Wu, H., Sui, G., Lee, C., Prins, M. L., Ladno, W., Lin, H., Yu, A. S., Phelps, M. E., Huang, S.  
2007; 48 (5): 837-845
- **Bright fluorescent nanodiamonds: No photobleaching and low cytotoxicity** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Yu, S. J., Kang, M. W., Chang, H. C., Chen, K. M., Yu, Y. C.  
2005; 127 (50): 17604-17605