

# Stanford

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## Gregory Arthur Szalkowski

Clinical Assistant Professor, Radiation Oncology - Radiation Physics

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#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiation Oncology - Radiation Physics

#### PROFESSIONAL EDUCATION

- Residency, University of North Carolina, Chapel Hill , Radiation oncology physics (2022)
- PhD, Georgia Institute of Technology , Medical Physics (2019)
- BS, Georgia Institute of Technology , Nuclear and Radiological Engineering (2014)

### Publications

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#### PUBLICATIONS

- **Stereotactic body radiotherapy optimization to reduce the risk of carotid blowout syndrome using normal tissue complication probability objectives** *JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS*  
Szalkowski, G., Karakas, Z., Cengiz, M., Schreiber, E., Das, S., Yazici, G., Ozyigit, G., Mavroidis, P.  
2022; 23 (5): e13563
- **Synthetic digital reconstructed radiographs for MR-only robotic stereotactic radiation therapy: A proof of concept** *COMPUTERS IN BIOLOGY AND MEDICINE*  
Szalkowski, G., Nie, D., Zhu, T., Yap, P., Lian, J.  
2021; 138: 104917
- **Feasibility Study of Cross-Modality IMRT Auto-Planning Guided by a Deep Learning Model**  
Szalkowski, G., Xu, X., Das, S., Yap, P., Lian, J.  
WILEY.2021
- **Image Synthesis for Planning and Target Tracking of MR-Based Stereotactic Radiation Therapy**  
Szalkowski, G., Nie, D., Zhu, T., Yap, P., Lian, J.  
WILEY.2021
- **Optimization of hexagonal-pattern minibeam for spatially fractionated radiotherapy using proton beam scanning** *MEDICAL PHYSICS*  
Charyyev, S., Artz, M., Szalkowski, G., Chang Chih-Wei, Stanforth, A., Lin Liyong, Zhang Rongxiao, Wang, C.  
2020; 47 (8): 3485-3495
- **Computer-Aided Star Shot Analysis for Linac Quality Assurance Testing**  
Szalkowski, G. A., Roper, J.  
TAYLOR & FRANCIS INC.2019: 905-911
- **Monte Carlo Study of Photon Minibeams**  
Szalkowski, G., Wang, C., Charyyev, S.  
WILEY.2018: E614
- **Development of Proton Minibeams as New Form of GRID Radiotherapy**  
Charyyev, S., Wang, C., Szalkowski, G.  
WILEY.2018: E488

- **Design of Faraday cup ion detectors built by thin film deposition** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*

Szalkowski, G. A., Darrow, D. S., Cecil, F. E.  
2017; 848: 87-90