

# Stanford

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## Yusuke Nomura

Postdoctoral Scholar, Radiation Physics

### Bio

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#### STANFORD ADVISORS

- Lei Xing, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Calibrated uncertainty estimation for interpretable proton computed tomography image correction using Bayesian deep learning.** *Physics in medicine and biology*  
Nomura, Y. n., Tanaka, S. n., Wang, J. n., Shirato, H. n., Shimizu, S. n., Xing, L. n.  
2021
- **Fast spot-scanning proton dose calculation method with uncertainty quantification using a three-dimensional convolutional neural network.** *Physics in medicine and biology*  
Nomura, Y. n., Wang, J. n., Shirato, H. n., Shimizu, S. n., Xing, L. n.  
2020
- **Projection-domain scatter correction for cone beam computed tomography using a residual convolutional neural network** *MEDICAL PHYSICS*  
Nomura, Y., Xu, Q., Shirato, H., Shimizu, S., Xing, L.  
2019; 46 (7): 3142–55
- **Modified fast adaptive scatter kernel superposition (mfASKS) correction and its dosimetric impact on CBCT-based proton therapy dose calculation.** *Medical physics*  
Nomura, Y. n., Xu, Q. n., Peng, H. n., Takao, S. n., Shimizu, S. n., Xing, L. n., Shirato, H. n.  
2019