



## Artem Poliszczuk

Postdoctoral Scholar, Physics

### Bio

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#### STANFORD ADVISORS

- Steven Allen, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Using the XMM-Newton small window mode to investigate systematic uncertainties in the particle background of X-ray charge-coupled device detectors** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*  
Schellenberger, G., Kraft, R., Nulsen, P., Miller, E. D., Bautz, M. W., Grant, C. E., Wilkins, D., Allen, S., Molendi, S., Burrows, D. N., Falcone, A. D., Fioretti, V., Foster, et al  
2025; 11 (1)
- **Fast, low-noise image sensor technology for strategic X-ray astrophysics missions**  
Bautz, M. W., Miller, E. D., Prigozhin, G. Y., LaMarr, B. J., Malonis, A., Foster, R., Grant, C. E., Schneider, B., Leitz, C., Donlon, K., Prigozhin, I., Lambert, R., Cooper, et al  
edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.  
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Continued developments in X-ray speed reading: fast, low noise readout for next-generation wide-field imagers**  
Herrmann, S. C., Orel, P., Chattopadhyay, T., Morris, G. R., Prigozhin, G. Y., Stueber, H. R., Allen, S. W., Bautz, M. W., Donlon, K., LaMarr, B. J., Leitz, C. W., Miller, E. D., Pan, et al  
edited by Holland, A. D., Minoglou, K.  
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **The XOC X-ray Beamline: Probing Colder, Quieter, and Softer**  
Stueber, H. R., Chattopadhyay, T., Herrmann, S. C., Orel, P., Gebre, T., Joshi, A., Allen, S. W., Morris, G. R., Poliszczuk, A.  
edited by Holland, A. D., Minoglou, K.  
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Towards efficient machine-learning-based reduction of the cosmic-ray induced background in X-ray imaging detectors: increasing context awareness**  
Poliszczuk, A., Wilkins, D., Allen, S. W., Miller, E. D., Chattopadhyay, T., Schneider, B., Darve, J., Bautz, M., Falcone, A., Foster, R., Grant, C. E., Herrmann, S., Kraft, et al  
edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.  
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Reduction of cosmic-ray induced background in astronomical X-ray imaging detectors via image segmentation methods**  
Poliszczuk, A., Wilkins, D., Allen, S. W., Miller, E., Chattopadhyay, T., Bautz, M., Darve, J., Foster, R., Grant, C. E., Herrmann, S., Kraft, R., Morris, R., Orel, et al  
edited by Zelinski, M. E., Taha, T. M., Narayanan, B. N.  
SPIE-INT SOC OPTICAL ENGINEERING.2023