BRADFORD J. WARGELIN

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Education

1993	Ph.D. Physics, University of California, Berkeley
1985	S.B. Physics, Massachusetts Institute of Technology

Professional History

2019-	Chandra Uplink Support Interface (USINT) Coordinator, CXC/SAO
2008 -	Science team member for proposed Constellation-X (Con-X), Generation-X (Gen-X),
	International X-ray Observatory (IXO), X-Ray Surveyor/Lynx, Structure & Evolution
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of ExoJupiters (SEEJ), Normal-incidence Extreme Ultraviolet Photometer (NExtUP;

as Project Scientist), and Line Emission Mapper (LEM)

1998 -Chandra X-Ray Center Calibration Scientist, Smithsonian Astrophysical Observatory

1993-1998 AXAF Ground Calibration Scientist, Smithsonian Astrophysical Observatory

Recent Research Grants

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2023	PI, "F-Star Stellar Cycles," Chandra Cycle 25 (150 ks)
2021	PI, "The X-Ray View of Stellar Cycles," XMM-Newton Cycle 20 (51 ks)
2021	PI, "Does Proxima Centauri Really Have a Stellar Cycle?," Swift Cycle 76 (36 ks)
2020	PI, "X-Ray Stellar Cycles at Low Rossby Number," Chandra Cycle 22 (90 ks/3 yr)
2020	PI, "Proxima Centauri's Stellar Cycle," Swift Cycle 16 (42 ks)
2019	PI, "X-Ray Stellar Cycles at Low Rossby Number," Chandra Cycle 21 (105 ks)
2019	PI, "The X-Ray View of Stellar Cycles," XMM-Newton Cycle 18 (25 ks)
2019	PI, "Proxima Centauri's Stellar Cycle," Swift Cycle 15 (49 ks)
2018	PI, "Stellar Cycle Sampling: the X-Ray Expansion," XMM-Newton Cycle 17 (65 ks)

General Fields of Interest

Stellar astrophysics: stellar coronae, cycles and winds, charge exchange, soft X-ray background Laboratory UV/X-ray physics: high-resolution spectroscopy, charge exchange, optics and detectors

Selected Recent Publications

- "X-Ray, UV, and Optical Observations of Proxima Centauri's Stellar Cycle," B.J. Wargelin, S.H. Saar, Z.A. Irving, et al., Astrophys. J. 977, 144 (2024)
- "Stellar Cycles in Fully Convective Stars and a New Interpretation of Dynamo Evolution," Z.A. Irving, S.H. Saar, B.J. Wargelin, & J.-D. do Nascimento, Jr., Astrophys. J. 949, 51 (2023)
- "Pointing Chandra Toward the Extreme Ultraviolet Fluxes of Very Low-Mass Stars," J.J. Drake, V.L. Kashayp, B.J. Wargelin, and S.J. Wolk, Astrophys. J. 893, 137 (2020)
- "Optical, UV, and X-Ray Evidence for a 7-Year Stellar Cycle in Proxima Centauri," B.J. Wargelin, S.H. Saar, G. Pojmański, et al., MNRAS 464, 3281 (2017)
- "Observation & Modeling of Geocoronal Charge Exchange X-Ray Emission During Solar Wind Gusts," B.J. Wargelin, M. Kornbleuth, P.L. Martin, and M. Juda, Astrophys. J. 796, 28 (2014)
- "Solar Wind Charge Exchange Emission in the Chandra Deep Field North," J.D. Slavin, B.J. Wargelin, and D. Koutroumpa, Astrophys. J. 779, 13 (2013)