

John Franklin Crenshaw

Contact Information	Email: jfc20@uw.edu Web: jfcrenshaw.github.io ORCID: 0000-0002-2495-3514	University of Washington Physics Dept Box 351560 Seattle, WA 98195
Education	University of Washington , Seattle, WA USA Ph.D. in Physics, expected May 2025 M.S., Physics, December 2020 Advisor: Andrew Connolly Duke University , Durham, NC USA B.S. in Physics, May 2019 <i>summa cum laude</i> with Highest Distinction Advisor: Kate Scholberg Thesis: Sensitivity of the Helium and Lead Observatory to Core-Collapse Supernova Neutrino Bursts	
Research Experience	Graduate Research Assistant DiRAC Institute, University of Washington Vera C. Rubin Observatory Dark Energy Science Collaboration (DESC) Informatics and Statistics Science Collaboration (ISSC) Advisor: Andrew Connolly	Aug 2019 –
	Undergraduate Research Assistant Duke University, Neutrino and Cosmology Group HALO Supernova Neutrino Detector Advisor: Kate Scholberg	Aug 2016 – May 2019
	Undergraduate Research Assistant Karlsruhe Institute of Technology, Institute for Nuclear Physics IceTop Cosmic Ray Detector Advisor: Andreas Haungs	May - Aug 2018
Fellowships & Awards	Rubin Observatory ISSC Ambassador DOE Scholar NSF Graduate Research Fellowship Honorable Mention Duke Faculty Scholar Daphne Chang Memorial Award, Duke Physics Department Highest Distinction for Undergraduate Thesis Research DAAD RISE Research Exchange Scholarship	2021 2021 2021 2018 – 2019 2019 2019 2018
First Author Publications	1. LEARNING SPECTRAL TEMPLATES FOR PHOTOMETRIC REDSHIFT ESTIMATION FROM BROADBAND PHOTOMETRY Crenshaw, J.F. & Connolly, A.J. 2020 <i>AJ</i> , 160, 191.	
Co-Author Publications	2. THE SENSITIVITY OF GPz ESTIMATES OF PHOTO-z POSTERIOR PDFs TO REALISTICALLY COMPLEX TRAINING SET IMPERFECTIONS Stylianou, N., Malz, A., Hatfield, P., Crenshaw, J.F. , Gschwend, J. <i>PASP in press</i> (2022) 1. AN INFORMATION-BASED METRIC FOR OBSERVING STRATEGY OPTIMIZATION, DEMONSTRATED IN THE CONTEXT OF PHOTOMETRIC REDSHIFTS WITH APPLICATIONS TO COSMOLOGY Malz, A.I., Lanusse, F., Crenshaw, J.F. , Graham, M.L. <i>arXiv</i> (2021)	

Invited Talks	DESC Winter Meeting (<i>online</i>)	Feb 2021
	Deep Generative Modeling for the Photo-z RAIL Pipeline	
	Gruen Weak Lensing Group, KIPAC, SLAC National Lab (<i>online</i>)	Sep 2020
	<i>Deconvolving Galaxy Spectra from Broadband Photometry</i>	
Contributed Talks	DESC Winter Meeting (<i>online</i>)	Feb 2021
	Rubin Observatory Project & Community Workshop (<i>online</i>)	July 2020
	DESC Winter Meeting (<i>Tucson, AZ</i>)	Jan 2020
Research Posters	AAS 238th Meeting (<i>online</i>)	June 2021
	SCMA VII Meeting (<i>online</i>)	June 2021
	Duke Physics Undergraduate Research Symposium (<i>Durham, NC</i>)	April 2019
	5th Joint Meeting of APS and Physical Society of Japan (<i>Waikoloa, HI</i>)	Oct 2018
	Neutrino 2018 (<i>Heidelberg, Germany</i>)	June 2018
Teaching Experience	Undergraduate Reading Course Instructor, Λ CDM Cosmology	2021 –
	Teaching Assistant, Intro Physics Courses, Duke University	2016 – 2019
	Physics and Math Tutor, Duke University	2016 – 2019
Outreach	STEM Pals organizer & pedagogical simulation developer	2021
	Duke University Teaching Observatory, volunteer	2018 – 2019
	Duke University Public Lecture: <i>Where Did We Come From and Are We Alone: cosmic origins and the search for life</i>	January 2018
Service & Leadership	Physicists for Inclusion and Equity (PIE) Officer, UW	2020 – 2021
	Departmental Review Student Committee, Duke Physics Department	2018
Professional Societies	American Astronomical Society (AAS)	
	American Physical Society (APS)	
	Phi Beta Kappa	
	Duke Society of Physics Students (SPS)	