

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. Physics, expected May 2025 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: <i>Sensitivity of the Helium and Lead Observatory to CCSN Neutrino Bursts</i>	
RESEARCH EXPERIENCE	Graduate Researcher , DIRAC Institute, University of Washington Aug 2019 - Dark Energy Science Collaboration (DESC), Vera C. Rubin Observatory Advisor: Andrew Connolly Undergraduate Researcher , Duke University Aug 2016 - May 2019 Duke Neutrino and Cosmology Group HALO Supernova Neutrino Detector Advisor: Kate Scholberg Undergraduate Researcher , Karlsruhe Institute of Technology May - Aug 2018 Institute for Nuclear Physics IceTop Cosmic Ray Detector Advisor: Andreas Haungs	
FELLOWSHIPS & AWARDS	<ul style="list-style-type: none">• DOE Scholar 2021• NSF Graduate Research Fellowship Honorable Mention 2021• Duke Faculty Scholar 2018 - 2019• Daphne Chang Memorial Award, Duke Physics Department 2019• Highest Distinction for Undergraduate Thesis Research 2019• DAAD RISE Research Exchange Scholarship 2018	
PUBLICATIONS	Crenshaw, J.F. & Connolly, A.J. 2020 <i>AJ</i> , 160, 191. <i>Learning Spectral Templates for Photometric Redshift Estimation from Broadband Photometry</i> Malz, A.I., Lanusse, F., Crenshaw, J.F. , Graham, M.L. 2021 arXiv:2104.08229. <i>An information-based metric for observing strategy optimization, demonstrated in the context of photometric redshifts with applications to cosmology</i>	
INVITED SEMINARS & COLLOQUIA	Gruen Weak Lensing Group, KIPAC, SLAC National Lab (<i>online</i>) <i>Deconvolving Galaxy Spectra from Broadband Photometry</i>	Sep 2020
CONFERENCE TALKS	DESC Winter Meeting (<i>online</i>) Rubin Observatory Project & Community Workshop (<i>online</i>) DESC Winter Meeting (<i>Tucson, AZ</i>)	Feb 2020 July 2020 Jan 2020
RESEARCH POSTERS	AAS 238th Meeting (<i>online</i>) SCMA VII Meeting (<i>online</i>) Duke Physics Undergraduate Research Symposium (<i>Durham, NC</i>) 5th Joint Meeting of APS and Physical Society of Japan (<i>Waikoloa, HI</i>) Neutrino 2018 (<i>Heidelberg, Germany</i>)	June 2021 June 2021 April 2019 Oct 2018 June 2018

TEACHING EXPERIENCE	Graduate Reading Course Instructor, Λ CDM Cosmology Teaching Assistant, Intro Physics Courses, Duke University Physics and Math Tutor, Duke University	March 2021 - Aug 2016 - May 2019 Jan 2016 - May 2019
SELECTED OUTREACH	University of Washington STEM Pals organizer <ul style="list-style-type: none"> • I develop and maintain pedagogical simulations to demonstrate how computational methods are used in research. 	2021 -
DEPARTMENT & UNIVERSITY LEADERSHIP	Physicists for Inclusion and Equity (PIE) Officer, UW Departmental Review Student Committee, Duke Physics Department	2020 - 2018
OBSERVING EXPERIENCE	Apache Point Observatory - 3.5 m, DIS: 3 nights	
PROFESSIONAL SOCIETIES	American Astronomical Society (AAS) American Physical Society (APS) Phi Beta Kappa Duke Society of Physics Students (SPS)	