

Talks & Posters	<p><u>Ocker SK</u>, Cordes JM, Chatterjee S, Lam M, Jennings R. Assessing Chromatic Arrival Time Perturbations for NANOGrav’s Error Budget. Poster. 235th AAS Meeting 2020.</p> <p><u>Ocker SK</u>, Rickett BJ, Stinebring D. A Multi-Frequency Scintillation Arc Study of Pulsar B1133+16. Poster. 233rd AAS Meeting 2019.</p> <p><u>Ocker SK</u>, Stinebring D. Multiple scintillation arcs in a nearby pulsar, B1133+16: crucial clues? Talk. University of Toronto Scintillometry with Pulsar VLBI Workshop 2017.</p> <p><u>Ocker SK</u>, Petrie G. The effects of spatial smoothing on solar magnetic helicity and the hemispheric helicity sign rule. Poster. 47th AAS/Solar Physics Division Meeting 2016.</p>
Refereed Publications	<p><u>Ocker SK</u>, Cordes JM, Chatterjee S. Electron density structure of the local Galactic disk. <i>ApJ</i> 897:2. doi:10.3847/1538-4357/ab98f9 (2020)</p> <p>Stinebring DR, Rickett BJ, <u>Ocker SK</u>. The frequency dependence of scintillation arc thickness in pulsar B1133+16. <i>ApJ</i>. 870:2. https://doi.org/10.3847/1538-4357/aaef80 (2019).</p> <p><u>Ocker SK</u>, Petrie G. The effects of spatial smoothing on solar magnetic helicity parameters and the hemispheric helicity sign rule. <i>ApJ</i>. 832:162. doi:10.3847/0004-637X/832/2/162 (2016).</p>
Non-refereed Publications	<p><u>Ocker SK</u>. Testing the production of scintillation arcs with the pulsar B1133+16. Electronic Thesis. Oberlin College, 2018. <i>OhioLINK Electronic Theses and Dissertations Center</i>. http://rave.ohiolink.edu/etdc/view?acc_num=oberlin1526565414057674</p>
Member Affiliations	<p>Associate Member, North American Nanohertz Observatory for Gravitational Waves (NANOGrav) 2019-present</p> <p>Graduate Student Member, American Astronomical Society (AAS) 2018-present</p> <p>Graduate Student Member, American Physical Society (APS) 2019</p>
Approved Observing Proposals	<p>Title: “Pulsar Scintillation Arcs - An L-band Follow-up to Previous GBT Detections” 2017</p> <p>Instrument: Greenbank Telescope, NRAO</p> <p>Proposal ID: GBT18A-349</p> <p>Proposal Authors: Jussila A, <u>Ocker SK</u>, Rickett BJ, McLaughlin M, Minter A, Stinebring DR</p>
Teaching Experience	<p><u>Cornell University Department of Astronomy</u></p> <p>Head Teaching Assistant, <i>ASTRO 1102/1104: Our Solar System</i> 2020</p> <p>Teaching Assistant, <i>ASTRO 1101/1103: From New Worlds to Black Holes</i> 2019</p> <p><u>Oberlin College, Department of Physics & Astronomy</u></p> <p>Teaching Assistant, <i>PHYS 111: Electricity, Magnetism, & Thermodynamics</i> 2017</p> <p>Teaching Assistant, <i>PHYS 110: Mechanics & Relativity</i> 2016</p> <p>Student Tutor, Quantitative Skills Center 2015-16</p>
Outreach	<p>Volunteer, Museum in the Dark, Museum of the Earth, Ithaca NY October 2020</p> <p>Head Organizer, Museum in the Dark, Museum of the Earth, Ithaca NY October 2019</p> <p>Organizer, Astronomy event with Cornell STEP program July 2019</p> <p>Program Leader, 4-H Career Explorations, Cornell University June 2019</p> <p>Workshop Volunteer, Expanding Your Horizons, Cornell University April 2019</p> <p>Coordinator, Kids’ Science Day at the Big Red Barn, Cornell University May 2019</p>

Professional Service	<u>Cornell University, Department of Astronomy</u>	
	<i>President, Astronomy Graduate Network</i>	2020-2021
	Description: Contributed to creation of Cornell Astronomy Graduate Student Handbook and the Astronomy Graduate Peer Mentoring Network	
	<i>Secretary & Outreach Coordinator, Astronomy Graduate Network</i>	2019-2020
	Description: Organizing the weekly graduate student and post-doc seminar; lead organizer of all outreach events involving graduate students; coordinating graduate student lectures at Ithaca public libraries	
	<u>Oberlin College, Department of Physics & Astronomy</u>	
	<i>Student Representative</i>	2016-2018
	Description: Gave student input at all faculty meetings; led student committee for 2017 faculty search; organized Women/Trans/Nonbinary in Physics Tea; organized annual departmental t-shirt contest; awarded Carl E. Howe Prize in Physics for service as student representative	
Technical Skills	Python (expert-level)	
	Mathematica	
	Latex	
	IDL	
	Fortran	
	Operating Systems: Unix, Linux, Mac OS, Windows	
Extracurricular	Cleanliness Coordinator, Kosher-Halal Cooperative, Oberlin College	2018
	Head Treasurer, Kosher-Halal Cooperative, Oberlin College	2017
	Assistant Treasurer, Kosher-Halal Cooperative, Oberlin College	2017
	Treasurer, Ballet Oberlin, Oberlin College	2016-present
	Chair, Ballet Oberlin, Oberlin College	2015