Connor Matthew Basinger

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Education	Ohio State University Bachelor of Science in Astronomy and Astrophysics, Magna	<i>May 2018</i> Cum Laude, GPA: 3.78	
Research Experience (~3 years)	Large Binocular Telescope Search for Failed Supernovae June 2018 - July 2020 Reduced and analyzed LBT data obtained as part of a survey looking for failed SNe. Analyzed HST and SST data of N6946-BH1. Submitted paper to MNRAS regarding follow-up of the failed SN candidate.		
	ASAS-SN Worked with Drs. Kris Stanek and Chris Kochanek on the Al Supernovae. Primarily examined data quality and named/rele	<i>May 2019 - July 2020</i> I-Sky Automated Survey for ased new transients.	
	Undergraduate Research Title: <i>Ages for Low Mass Field Stars</i> . Created an empirical m Terndrup to determine information on the ages of stars from t	Jan 2017 - May 2018 odel with Dr. Donald heir rotation rates.	
	Computational Physics Project Investigated whether a simple wind law could accurately repr momentum evolution of a star compared to the full stellar mo	<i>March 2018 - April 2018</i> roduce the angular del.	
Publications in Progress	The Search for Failed Supernovae with the Large Binocular Telescope: N6946-BH1, Still No Star Analyzed new LBT, HST, and SST data of N6946-BH1, our failed SN candidate in NGC 6946. We found that the new data remains consistent with a disappearing star.		
Astronomer's Telegrams	ASASSN-19wf: Discovery of A Bright Type Ia Supernova in the TESS Field Brimacombe J., et al., 2019, ATel, 13093, 1		
	ASASSN-19vj: Discovery of A Possible Hostless Supernova Brimacombe J., et al., 2019, ATel, 13061, 1		
	and more - currently 37 total - see my ADS page or visit m	y <u>website</u>	
Presentations	Denman Forum Presented results from <i>Ages for Low Mass Field Stars</i> research Denman Undergraduate Research forum at Ohio State.	<i>April 2018</i> th project at the	
	SURP Summer Undergraduate Research Project with the OSU astro the results of my summer research project to peers and facult	<i>Aug 2017</i> nomy department. Presented y.	
	Holography Show Displayed a self-made 3D hologram as part of an art/physics concept of my piece to visitors including world renowned hol	<i>Dec 2016</i> show, explaining the lographers.	
Awards	Undergraduate Research Scholarship Awarded for project: Ages for Low Mass Field Stars.		

	Helen Cowan Book Award Given to high-achieving freshmen in physics.		
Teaching Experience (5 Semesters)	Astronomy 1142 TA Black Holes. Responsibilities included attending lectur with the preparation, administration, and grading of exa session before each exam.	<i>Jan - May 2018</i> es, holding office hours, assisting ams, and conducting a review	
	Astronomy 1140 TA Jan - May 2018 Planets & The Solar System. Responsibilities included attending lectures when necessary to help with demonstrations, holding office hours, and assisting with the preparation and administration of exams.		
	Astronomy 1101 Lab TA From Planets to the Cosmos. Responsibilities included with students and grading labs and homework, serving	Jan - Dec 2017 setting up and conducting labs as the instructor for the lab.	
	Astronomy 1101 Lecture IAJan - Dec 2017From Planets to the Cosmos. Instructional Aid. Responsibilities included attending classto help as needed and assisting in the preparation and administration of exams.		
	Astronomy 1101 Lab IA From Planets to the Cosmos. Instructional Aid. Respor up and conducting labs with students, grading, and fam labs to prepare to be a TA.	Jan - Dec 2016 nsibilities included setting niliarizing myself with the	
Advanced Coursework	Astron 3350 - Methods of Astronomical Observation Astron 4194 - Group Studies - Introduction to present Astron 5681 - Principles of Stellar Evolution & Nuc Astron 5682 - Introduction to Cosmology Astron 5830 - Observed Properties of Astronomical Physics 5300 - Theoretical Mechanics Physics 5400H/5401H - Honors Advanced E&M 1 & Physics 5500H/5501H - Honors Quantum Mechanic Physics 5600 - Statistical Mechanics Physics 5700 - Advanced Physics Lab Physics 6810 - Computational Physics	ron 3350 - Methods of Astronomical Observation & Data Analysis ron 4194 - Group Studies - Introduction to presenting in the planetarium ron 5681 - Principles of Stellar Evolution & Nucleosynthesis ron 5682 - Introduction to Cosmology ron 5830 - Observed Properties of Astronomical Systems sics 5300 - Theoretical Mechanics sics 5400H/5401H - Honors Advanced E&M 1 & 2 sics 5500H/5501H - Honors Quantum Mechanics 1 & 2 sics 5600 - Statistical Mechanics sics 5700 - Advanced Physics Lab sics 6810 - Computational Physics	