EDUCATION	Doctor of Philosophy in Physics University of Tennessee, Knoxville	Aug 2015 - May 2023
	Thesis: "Sub-Chandrasekhar type Ia supernovae scenarios with increased pathwa Bachelor of Science in Astronomy University of Chile, Santiago, Chile	ys for neutronization" Jan 2006 - Dec 2012
RESEARCH EXPERIENCE	 Type la Supernova Modelling Department of Physics and Astronomy, University of Tennessee at Knoxville, U.S. Studies of thermonuclear transients through large scale simulations Competencies: HPC-code development; OpenMP, MPI; batch and software performance measurement and modeling, large-scale data handling and analy data visualization Advisor: Bronson Messer (ORNL/UTK) 	Aug 2017 - Dec 2022 dependency systems, ysis, three-dimensional
	 Millimeter Point Source Characterization Aug 2013 - Jul 2015 Department of Astronomy and Astrophysics, Pontifical Catholic University of Chile, Chile Source catalog construction using radio-telescope data in 3 observing bands Competencies: database management (SQL), measurement and fitting of time-domain data (Markov chain Monte Carlo). Advisor: Rolando Dünner (PUC Chile) 	
	 CO White Dwarf Modeling Mar-Aug 2011 National Astronomical Observatory, University of Chile, Chile Stellar evolution from Zero-Age Main Sequence using MESA (Modules for Experiments in Stellar Astrophysics) code. Competencies: FORTRAN. Advisor: Francisco Förster (UChile) 	
	Galactic Metallicity GradientsJan-MailNational Astronomical Observatory, University of Chile, Chile• Spectral flux extraction from a set of HII-Regions in several galaxies (IRAF)• Competencies: Data extraction and analysis, presenting results to a specialized audience.• Advisor: Joseph Anderson (UChile)	
TEACHING & OUTREACH	Astrophysics Seminar: Supernovae Ia: Omens of the past. Today's Auguries	14 11 0004
	Astrophysics Seminar: <i>Type la supernovae progenitor systems: The double detonation mechanism</i> University of Tenn	essee, Knoxville. 2021 essee, Knoxville. 2019
	Poster presentation at the 4th Fifty-One Ergs workshop: Sub-Chandrasekhar type Ia supernovae scenarios with large networks North Carolina	State University. 2019
	Graduate teaching assistant for physics & astronomy University of Tennessee	e, Knoxville, 2015-2017
	Chaperone at CONICYT's (National Science and Technology Comission) "News from the Universe" science exhibition	
	Santiago	o, Unite Oct - Nov 2009
SKILLS	Languages: English(fluent), Spanish(fluent), Python(proficient), LATEX(familiar), FC Software: Jupyter, Git, SSH, Vim, Linux, Windows	RTRAN(familiar)