

Martin A. Fernandez

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EDUCATION

Currently: PhD Candidate in Physics, University of California Riverside.

Anticipated completion, June 2022.

M.S. in Physics	University of California Riverside	2018
B.S. in Physics	Western Washington University	2017

RESEARCH

2018 – 2021: Using cosmological simulations to explore beyond-standard-model physics and constrain cosmological & astrophysical parameters. Advised by Dr. Simeon Bird (University of California Riverside).

2016 – 2017: Theory & modeling of guided wave plasmon polariton modes on novel waveguide architectures. Advised by Dr. Brad Johnson (Western Washington University).

2015 – 2017: Identifying & characterizing pre-main sequence double-lined spectroscopic binaries in young star forming environments. Advised by Dr. Kevin Covey (Western Washington University).

PROGRAMMING SKILLS

5+ years: Python and L^AT_EX.

3+ years: High-performance computing (SLURM), including the use of TACC resources (Frontera, Stampede2), and the XSEDE allocation system.

1+ years: C, Mathematica, IDL, and HTML/CSS.

AWARDS

NSF GRFP (Graduate Research Fellowship Program)	2019 – 2022
UCR Chancellor's Distinguished Fellowship	2017
WWU Alumni Association Leader Scholarship	2016

TEACHING

UCR Teaching Assistant, Physics 2LC: Waves & Optics	2018
WWU Teaching Assistant, Tools and Data Analysis	2016 & 2017
WWU Teaching Assistant, Classical Mechanics	2016

OUTREACH

Advisor/mentor for high school student

2018 – 2020

Currently at UC Berkeley studying computer science.

UCR Physics Organization for Women and the UnderRepresented

2018 – 2020

Served as treasurer for 2019.

WWU Public Night Sky Observing host

2015 – 2017

WWU Women in Physics

2015 – 2017

Volunteer/Organizer for outreach events, including: GEMS Fair (2016, 2017), GEMS Academy (2017), Compass2Campus (2015, 2016), Scouting for Science (2016, 2017), March for Science (2017), Mix it Up (2015, 2016).