

Alexander Rodriguez

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July 2020

<https://github.com/alro15260>

Fourth Year Undergraduate Student

Joint Institute for Laboratory Astrophysics | JILA

440 UCB Boulder CO, 80309

Education

BA in Astrophysics & Mathematics, University of Colorado Boulder
GPA in Upper Division MATH, PHYS, & ASTR: 3.6/4.0

expected Spring 2021

Positions

Research Assistant, JILA, Boulder CO *Jan 2019 - Present*

Honors

Chancellor Achievement Scholarship

Dean's list

Alpha Kappa-A Alpha Kappa (Acacia) Scholarship of Highest Merit

Publications

Rodriguez A., Genozov A., & Madigan A-M, Galactic Merger Implications for Eccentric Nuclear Disks (in prep.)

Contributed Talks

AAS Division of Dynamical Astronomy (DDA) 51st Meeting, Online *July 2020*

Teaching

Tutor at the University of Colorado Boulder at the Student Academic Success Center (SASC) | *August 2018 - August 2019*

MATH1300 (*Calculus I*)

MATH2400 (*Calculus 3*)

PHYS1110 (*Calculus-based Physics I*)

Graduate Coursework

MATH5470 (*Partial Differential Equations*) project & lecture on *Green's Functions in Electrodynamics*

MATH5230 (*Differential Geometry*)

PHYS5030 (*Mathematical Methods of Physics I*)

PHYS5040 (*Mathematical Methods of Physics II*) *expected Spring 2021*

PHYS5770 (*General Relativity*) *expected Spring 2021*

Projects & Organizations

Designed leapfrog N-body integrator

M77 Supernova Analysis Project with 24'' telescopes at CU Boulder *November 2018*

Statistical Analysis of Stars in Galactic Nuclei Project

Academic Chair of Alpha Kappa-A Alpha Kappa (Acacia)