

# Alexander Rodriguez

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## Education

August 2017–  
Present **Bachelor of Arts in Astrophysics & Mathematics**, *University of Colorado Boulder*,  
GPA in Upper Division MATH, PHYS, & ASTR: 3.6/4.0.

## Positions

January 2019–  
Present **Research Assistant**, JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (JILA),  
Boulder CO.

## Honors

Chancellor Achievement Scholarship  
Dean's List  
Alpha Kappa-A Alpha Kappa Scholarship of Highest Merit  
Division of Dynamical Astronomy (DDA) Registration Grant

## 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](#)

## Teaching

Fall 2018 MATH2400 (*Calculus 3*)  
Fall 2018 PHYS1110 (*Calculus-based Physics 1*)  
Spring 2019 MATH1300 (*Calculus 1*)

Tutor at the Student Academic Success Center (SASC) at the University of Colorado Boulder for underprivileged and poorly represented students.

## Graduate/Advanced Coursework

Fall 2019 MATH5470 (*Partial Differential Equations*) [with project & lecture on Green's Functions and Potentials](#)  
Fall 2020 MATH4230 (*Differential Geometry*)  
Fall 2020 PHYS5030 (*Mathematical Physics I*)  
Spring 2021 PHYS5040 (*Mathematical Physics II*)  
(expected)  
Spring 2021 PHYS5770 (*General Relativity*)  
(expected)

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## Projects & Organizations

- Fall 2018 Designed leapfrog N-body integrator
- Fall 2018 M77 Supernova Analysis Project with 24" telescopes at CU Boulder
- Spring 2019 Statistical Analysis of Stars in Galactic Nuclei Project
- Fall 2019 Academic Chair of Alpha Kappa-Alph Kappa