

# COLEMAN GLIDDON

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## EDUCATION

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**Massachusetts Institute of Technology, Cambridge, Massachusetts, USA**  
PhD – Climate Science (in progress) September 2024–Present  
Department of Earth, Atmospheric, and Planetary Sciences  
*Advisor: Talia Tamarin-Brodsky, PhD*

**Harvey Mudd College, Claremont, California, USA**  
BS – Physics, High Distinction with Departmental Honors September 2019–May 2023

## ACADEMIC HONORS

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Warren Klein Fellowship (MIT) 2024  
Rojansky Writing Prize (Harvey Mudd) 2021  
Harvey S. Mudd Merit Award (Harvey Mudd) 2019

## PRESENTATIONS

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Dong, T., **Gliddon, C.**, Li, D., Porto, R., Shuve, B., Tucker-Smith, D. (2023). “UV Freeze-in Leptogenesis via DM Oscillations,” American Physical Society April Meeting 2023 [*poster presentation*].

## RESEARCH

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**Senior Thesis Student** September 2022–May 2023  
*Department of Physics, Harvey Mudd College* *PI: Brian Shuve, PhD*

- Analyzed the novel “UV freeze-in” model of dark matter generation proposed by PI
- Calculated reaction rates for early-Universe particle scatterings used to verify viability of the UV freeze-in model in later research
- Solved dynamical equations for particle interactions to derive analytical estimates for key cosmological variables under the UV freeze-in model’s assumptions

**Student Researcher** May 2022–July 2022  
*Department of Physics and Astronomy, Pomona College* *PI: Thomas Moore, PhD*

- Assisted PI in developing computer software to simulate detection by the LISA observatory of compact-object binary gravitational wave sources
- Implemented numerical methods for modeling the time-series behavior of inspiraling binary systems
- Produced and updated both technical and scientific documentation to assist future program developers and users assumptions

## WORK EXPERIENCE

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**Physics Academic Excellence Facilitator** September 2021–May 2023  
*Harvey Mudd College*

- Tutored students and facilitated group work in Harvey Mudd’s introductory (“core”) physics classes with a team of 7–10 students
- Offered support to students in both physics material and in the transition to collegiate learning
- Regularly communicated with professors to highlight student progress and difficulties in core courses and advocate for students

**Student Grader**

August–November 2020, September 2022–May 2023

*Harvey Mudd College, Pomona College*

- Graded problem sets for the courses Special Relativity, Calculus, Mechanics and Wave Motion (advanced), Statistical Mechanics and Thermodynamics, Dynamical Systems
- Provided individualized feedback to students on submissions and, for Math grading, collaborated with fellow graders to produce general feedback for classes

**TECHNOLOGY EXPERIENCE**

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**Computer Languages**Python, Xojo (proficient); Java, MATLAB, Wolfram Language  
(some experience)**Software & Tools**

LaTeX, Mathematica, Maple, Linux, Git/Github