

# STATEMENT OF PURPOSE

MIT DEPARTMENT OF PHYSICS · PHD PROGRAM · FALL 2024

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## INTRODUCTION

I am an aerospace software engineer, and a scientific software developer. My aerospace dynamics & controls research emphasized computation, and I have been fortunate to have had the opportunity to exercise my computational dynamics background as an integrated GN&C analyst to expand human space exploration at NASA. Now, I aspire to grow as a computational physicist, and expand astrophysical discovery in through computational research.

I am thankful for the opportunity to apply to the PhD Program at MIT's Kavli Institute for Astrophysics and Space Research. Thank you for your consideration.

## RESEARCH EXPERIENCE

### SCIENTIFIC COMPUTING

All of the scientific software I write is published on GitHub under the username `@cadojo`, and is linked-to and summarized at my personal website: `loopy.codes`.

## RESEARCH ASPIRATIONS      FORWARD WORK