

# Thomas Seive

## Astrophysicist

Austin, TX | 214-799-4092  
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### Skills

- Advanced Python
- Basic Mongo
- Basic Git

### Experience

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**Understanding the transition from dispersion dominance to rotational support in the FIRE-2 simulations:** worked with Dr. Andrew Graus to develop code that analyzed velocity dispersion in FIRE-2 dwarf galaxies. Presented this research at the UT Undergraduate Research Forum.

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**Department of Astronomy, University of Texas - Austin / Research Assistant**

Sept 2021 - PRESENT, Austin, TX

- Analyzed data from the HET LRS2 instrument using Python to further understand how MgII emission lines trace neutral Hydrogen
- Collaborated with group members in weekly group meetings
- Working on publishing a research paper on the methods and results of the research

**Student Athletics, University of Texas at Austin / Tutor**

Feb 2019 - May 2021, Austin, TX

- Tutored student athletes in Astronomy and Physics
- Attended monthly tutoring development sessions

**Department of Astronomy, University of Texas - Austin / Undergraduate Grader-Learning Assistant**

August 2018 - May 2020, Austin, TX

- Assessed student work
- Administered assessments
- Conducted and facilitated in-class activities

### Education

**University of Texas at Austin / B.S. Astronomy**

August 2017 - May 2021, Austin, TX

GPA 3.79

Graduate of Distinction with Distinctions in Research

Relevant Coursework: AST376R Introduction to Observational Methods

**University of Texas at Austin / B.S. Physics**

August 2017 - May 2021, Austin, TX

### Leadership & Community

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Astronomy Students Association, University of Texas at Austin, Austin, TX  
September 2017- May 2021 | Member

