

# JORDAN N. HOFFART

Department of Mathematics, Texas A&M University, College Station, TX

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## EDUCATION

<b>Ph.D. Mathematics</b> Texas A&M University Advisor: Matthias S. Maier Dissertation: <i>Structure-preserving numerical methods for plasma physics</i>	Aug 2026
<b>B.S. Applied Mathematical Sciences</b> Texas A&M University GPA: 3.71 <i>magna cum laude</i>	Dec 2019

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## PUBLICATIONS AND PREPRINTS

Jordan Hoffart, Matthias Maier, John N. Shadid, and Ignacio Tomas, *Structure-preserving finite-element approximations of the magnetic Euler–Poisson equations*. Submitted (2025). arXiv:2510.11808.

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## RESEARCH EXPERIENCE

<b>Graduate Research Assistant</b> Texas A&M University	Sep 2021 – Aug 2026
<b>Computational Physics Summer Workshop Fellow</b> Los Alamos National Laboratory	Jun 2023 – Aug 2023

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## CONFERENCE TALKS

SIAM TX–LA Section Meeting, 2024  
*A comparison of finite element spaces for the discontinuous Galerkin approximation of the Maxwell eigenvalue problem in first-order form*

Finite Element Rodeo, 2024  
*Towards an Involution-preserving solver for the time-dependent Maxwell equations*

Finite Element Rodeo, 2023  
*Structure-preserving finite element schemes for the Euler–Poisson equations*

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## TEACHING EXPERIENCE

<b>Graduate Teaching Assistant, Texas A&amp;M University</b> Numerical Partial Differential Equations (MATH 610)	Sep 2021 – Aug 2026 2022, 2024
Principles of Numerical Analysis (MATH 437)	2025 – 2026
Engineering Mathematics II (MATH 152)	2024
Functions, Trigonometry, and Linear Systems (MATH 150)	2021

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## SERVICE

### Texas A&M University SIAM Student Chapter

President

Sep 2025 – Aug 2026

Vice-President

Sep 2023 – Aug 2025

### SIAM TX–LA Section Meeting

Co-organizer, Minisymposium on:

*Numerical methods for coupled multiphysics systems*

Sep 2025

*Advances in numerical methods for electromagnetism*

Oct 2024

*Recent developments in electromagnetics and related eigenvalue problems*

Nov 2023

### Texas Junior Science and Humanities Symposium

Panel Judge

Jan 2025

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## OUTREACH

### Texas A&M University

Assistant *Undergraduate Summer School*

May 2024 – 2026

Mentor *Undergraduate Directed Reading Program*

Sep 2022 – May 2023

Instructor *K–12 Math Circle*

Feb 2020

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