

# Leticia Mattos Da Silva

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## Education

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Massachusetts Institute of Technology Ph.D. in Computer Science, advised by Justin Solomon	Sept. 2021 – <i>present</i>
Massachusetts Institute of Technology S.M. in Computer Science, advised by Justin Solomon	June 2023
University of California, Los Angeles B.S. in Mathematics <i>cum laude</i>	March 2021

## Research Positions

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Pre-Doctoral Researcher Flatiron Institute, Simons Foundation, New York, NY	May – Aug. 2024
Research Scientist Intern Adobe Inc., San Jose, CA (Remote)	May – Aug. 2022
Research Intern Fields Institute for Research in Mathematical Sciences, Toronto, ON (Remote)	July – Aug. 2021
Research Intern Fields Institute for Research in Mathematical Sciences, Toronto, ON (Remote)	July – Aug. 2020
Student Researcher SMALL Research Experience for Undergraduates, Williamstown, MA	June – Aug. 2019

## Honors and Awards

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MathWorks Fellowship	2023
Schwarzman College of Computing Fellowship funded by Google	2022
Google Lime Scholarship <i>semi-finalist</i>	2022
Distinguished Graduate Fellowship in Electrical Engineering and Computer Science	2021
Will Rogers Memorial Scholarship	2021
De Anza Physical Sciences, Mathematics, and Engineering Scholarship	2017

## Publications

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### PREPRINTS

2. [A Framework for Solving Parabolic Partial Differential Equations on Discrete Domains](#) 2023  
*Leticia Mattos Da Silva*, Oded Stein, Justin Solomon  
Under peer review

### JOURNAL ARTICLES

1. [Breaking Good: Fracture Modes for Realtime Destruction](#) 2022  
Silvia Sellán, Jack Luong, *Leticia Mattos Da Silva*, Aravind Ramakrishnan, Yuchuan Yang, Alec Jacobson  
ACM Transactions on Graphics

## Presentations

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### UPCOMING TALKS

Graduate Student Seminar, Department of Mathematics, Tufts University Oct. 2024

### CONTRIBUTED TALKS

Graduate Women in Course 6 Research Summit, MIT Oct. 2022  
Graduate Women in Course 6 Research Summit, MIT Nov. 2021  
Women in Math Research Night, University of California, Los Angeles May 2021  
Young Mathematicians Conference, Columbus, OH, *with Charles Devlin VI* Aug. 2019

### POSTERS

MathWorks Day, MIT April 2024  
ICERM Workshop *PDEs and Geometry: Numerical Aspects*, Brown University March 2024

## DEI Engagement

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Executive Member of Diversity, Equity, and Inclusion Jan. 2023 – Dec. 2023  
EECS Graduate Student Association, MIT

Graduate Recruitment Effort Volunteer Nov. 2023  
The Society of Hispanic Engineers (SHPE) National Convention, Salt Lake City, UT

Disability Justice Council Representative Sept. 2021 – June 2023  
Graduate Student Council, MIT

Student Mentor for the Graduate Assistance Application Program Sept. – Dec 2021, 2022  
EECS Department, MIT

Co-organizer of outreach program *Noches de Ciencias* Sept. 2019 – March 2020  
Society of Latino Engineers and Scientists, University of California, Los Angeles

## Academic Service

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Graduate Applications Reviewer EECS Department, MIT	Jan. 2024
Teaching Assistant for <i>Progressive Mesh Compression</i> , supervised by Paul Kry Summer Geometry Initiative, MIT	July 2023
Executive Member of New Student Orientation EECS Graduate Student Association, MIT	Jan. 2022 – Dec. 2022
Organizer of Special Session on Graduate Admissions Summer Geometry Initiative, MIT	July 2021
Student Volunteer Eurographics/ACM SIGGRAPH Symposium on Geometry Processing (SGP)	July 2021
Co-organizer of tutor training workshops Math Performance Success Program, De Anza College	Sept. 2017 – June 2018

## Mentoring

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Akshata Tiwari, Undergraduate Researcher, MIT	2024
Francisco Unai Caja López, Summer Geometry Institute Fellow	2023
Anna Cole Percy, Summer Geometry Institute Fellow	2023
Matheus da Silva Araujo, Summer Geometry Institute Fellow	2023
Hossam Mohamed Saeed Gize, Summer Geometry Institute Fellow	2023
Dora Zhao, Graduate Application Mentee, <i>now at Stanford</i>	2022
Olga Guñan, Graduate Application Mentee, <i>now at CMU</i>	2021

## Teaching Positions

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### COURSES AT THE UNIVERSITY OF CALIFORNIA, LOS ANGELES

Instructor First-Year Engineering Transition Bridge: Differential and Integral Calculus	Summer 2019, 2020
Teaching Assistant Introduction to Engineering Disciplines	Fall 2019

### COURSES AT DE ANZA COLLEGE

Teaching Assistant Intermediate Algebra, Precalculus, Integrated Statistics	Fall 2016 – Spring 2018
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