

Jade Lintott

Ph.D. Candidate in Computer Science | Georgia Institute of Technology
Algorithms, Combinatorics, and Optimization
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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Expected May 2027

Ph.D. in Computer Science, Algorithms, Combinatorics, and Optimization program

- Advisor: Will Perkins
- Dissertation: *Local large deviations for sparse random structures*

Stanford University, Stanford, CA

2022

M.S. in Computer Science

Stanford University, Stanford, CA

2021

B.S. in Mathematics, with Distinction

- Phi Beta Kappa, 2021

TEACHING EXPERIENCE

Georgia Institute of Technology, Atlanta, GA

Fall 2026

Lead Instructor, CS 2050: Introduction to Discrete Mathematics for Computer Scientists

- Deliver two lectures per week to approximately 200 students.
- Revise lectures, assignments, examinations, grading policies, and course policies regarding LLM-assisted cheating.
- Coordinate and supervise a course staff of two head teaching assistants and more than 20 teaching assistants; hold office hours and manage student questions.
- Use frequent question-based activities to promote prediction and retrieval in line with evidence-based teaching practices.

MathILy-Er

Summer 2026

Apprentice Instructor

- Taught linear algebra in $\mathbb{Z}_2$ and graph theory to high school students in an inquiry-based learning environment.
- Wrote daily evening problem sets in response to students' progress in the morning class.

Georgia Institute of Technology, Atlanta, GA

Spring 2026

Head Teaching Assistant, CS 3510: Design and Analysis of Algorithms

- Developed homework problems, contributed to course design, held office hours, and supported grading.

TEACHING EXPERIENCE (CONTINUED)

Georgia Institute of Technology, Atlanta, GA

Fall 2025

Teaching Assistant, CS 3511: Honors Design and Analysis of Algorithms

- Held office hours, graded assignments and examinations, and provided student support.

Georgia Institute of Technology, Atlanta, GA

Fall 2023

Teaching Assistant, CS 3510: Design and Analysis of Algorithms

- Held office hours, graded assignments and examinations, and provided student support.

Stanford University, Stanford, CA

Spring 2020

Visual Descriptionist, CS 103: Mathematical Foundations of Computing

- Provided instruction to a blind student and explained visual material in lectures and slides, especially for automata theory.

Stanford University, Stanford, CA

2018–2019

Computer Science Section Leader

- Taught introductory computer science in Java and Python to more than 30 students, including programming methodology, data structures, and object-oriented programming.
- Led interactive grading sessions and debugged code with students in C++, Java, and Python.

TEACHING AREAS

Discrete mathematics; combinatorics; algorithms; data structures; graph theory; probability; random graphs; complexity theory; theory of computation; mathematical foundations of computing; introduction to proofs; introductory programming; algorithmic fairness; introductory optimization.

PUBLICATIONS AND PREPRINTS

J. Lintott, W. Perkins, and C. Yap, “Local large deviations for triangles in sparse random graphs,” [arXiv:2609.21890](https://arxiv.org/abs/2609.21890), 2026.

INVITED TALKS

“Local large deviations for triangles in sparse random graphs”

March 2026

University of Nebraska–Lincoln, Discrete Mathematics Seminar

“Local large deviations for triangles in sparse random graphs”

February 2026

Georgia State University, Combinatorics Seminar

SELECTED RESEARCH AND PROFESSIONAL EXPERIENCE

Georgia Institute of Technology, Atlanta, GA

2022–Present

Dissertation Research: Local lower-tail large deviations for triangles in sparse random graphs | Advisor: Will Perkins

- Establish first-order asymptotics for the local lower tail of triangle counts in sparse Erdős–Rényi random graphs.
- Characterize the conditional distribution of the triangle set up to vanishing total variation distance and develop an efficient approximate sampling algorithm.
- Use techniques from probabilistic combinatorics, large deviations, asymptotic enumeration, and approximate sampling.

SELECTED RESEARCH AND PROFESSIONAL EXPERIENCE (CONTINUED)

Stanford University, Stanford, CA	2020–2022
<i>Research Assistant, Algorithmic Fairness</i>	
• Studied calibration, equalized odds, and relationships between predictors and risk scores. • Contributed to the <i>Lexicon on Algorithmic Fairness</i>.	
Stanford Center for Spatial and Textual Analysis, Stanford, CA	2020–2021
<i>Research Assistant, Oral History Text Analysis Project (OHTAP)</i>	
• Contributed to the development and testing of computational tools for mining oral-history transcripts, including the Winnow subcorpus-creation tool. • Worked with Python, corpus metadata, and quantitative and qualitative text-analysis methods.	
Susquehanna International Group	Summer 2020
<i>Trading Intern</i>	
• Applied natural-language processing and machine learning to financial-headline data. • Completed training in options trading and market making.	

ACADEMIC SERVICE AND LEADERSHIP

Co-Head Organizer , 2027 Graduate Student Combinatorics Conference	2026–Present
• Co-lead planning for a national graduate-student combinatorics conference hosted by Georgia Tech.	
Organizing Team Member , Women in Theory Workshop	2026–Present
Financial Officer , Association for Women in Mathematics Graduate Chapter	2025–2026
Member , Graduate Student Emerging Leaders Advisory Board, Georgia Tech Student Engagement and Well-Being	2025–2026
• Consulted with administrators and provided graduate-student input on policies, programs, and institutional priorities.	
Co-organizer , Weekly ACO Student Seminar, Georgia Institute of Technology	2023–Present

TECHNICAL SKILLS AND LANGUAGES

Programming	Python, Java, C++, C, SQL
Languages	Mandarin Chinese — fluent