JING YU

CONTACT INFORMATION	jingyu@gatech.edu +1–4044050776 School of Mathematics, Georgia Institute of Technology, 686 Cherry Street, Atlanta, GA 30332
RESEARCH INTERESTS	Combinatorics and descriptive set theory.
EDUCATION	**Georgia Institute of Technology**, USA Ph.D. in Algorithms, Combinatorics and Optimization (ACO) & Mathematics, expected in 2024 **Fudan University**, China M.S. in Computational Mathematics, 2019 B.S. in Mathematics, 2015

PUBLICATIONS & PREPRINTS

- Large-scale geometry of Borel graphs of polynomial growth II : from asymptotic power dimension to coarse embeddings, in preparation
- Outerplanar Graphs with Positive Lin-Lu-Yau Curvature, with George Brooks, Fadekemi Osaye, Anna Schenfisch and Zhiyu Wang, in preparation
- Large-scale geometry of Borel graphs of polynomial growth, with Anton Bernshteyn, arXiv 2302.04727, submitted
- Approximability of the Eight-Vertex Model, with Jin-Yi Cai, Tianyu Liu, and Pinyan Lu, 35th Computational Complexity Conference (CCC 2020)

INVITED TALKS

- 2024
  - Jan 4, *ASL Special Session on Descriptive Methods in Dynamics, Combinatorics, and Large-Scale Geometry, Joint Mathematical Meeting (JMM 2024)*, USA.
- 2023
  - Dec 6, *McGill Descriptive Dynamics and Combinatorics seminar*, online.
  - Nov 4, *7th mini-conference of Atlanta Lecture Series in Combinatorics and Graph Theory*, USA.
  - Oct 10, *CMU Logic Seminar*, Carnegie Mellon University, USA.
  - Aug 28, *John Hopcroft Center Lecture Series*, Shanghai Jiaotong University, China.
  - Jun 9, *Shanghai Center for Mathematical Sciences (SCMS) Combinatorics Student Seminar*, online.
  - May 10, *UCLA Logic Colloquium*, UCLA, USA.
  - Apr 12, *Discrete Math Seminar*, Georgia State University, USA.
  - Mar 19, *AMS Spring Southeastern Sectional Meeting Special Session on Logic, Combinatorics, and Their Interactions*, Georgia Institue of Technology, USA.

CONTRIBUTED TALKS

- *The 5th Mostly annual Mostly Manitoba, Michigan and Minnesota Combinatorics Graduate Students Workshop*, Iowa State University, USA, Sep 10, 2022.
- *Workshop in Analysis and Probability–Graduate Student Concentration Week on Metric Geometry*, Texas A&M University, USA, July 29, 2022.

POSTERS

- *Women in Algebra and Combinatorics, Northeast Conference Celebrating the Association for Women in Mathematics : 50 Years and Counting in memory of Georgia Benkart*, University at Albany, USA, April 29, 2023.
- *Algorithms, Combinatorics and Optimization Research Network (ACORN) Meeting 2023*, Georgia Institue of Technology, USA, Mar 10, 2023.

AWARDS & HONORS

- 2020 ARC-ACO Fellowship, Georgia Institute of Technology.
- 2018 Outstanding Teaching Assistant, Fudan University.
- 2017 Outstanding Teaching Assistant, Fudan University.
- 2015 Outstanding Graduate, Fudan Univerity.
- 2015 Second Prize of the Scholarship for Outstanding Students, Fudan University.

Georgia Institute of Technology, USA

- Teaching Assistant
  - MATH 1553 : Introduction to Linear Algebra ; Fall 2022.
  - CS 6515 : Introduction to Graduate Algorithms ; Fall 2020, Spring 2021, Fall 2021.
- Lecture Assistant
  - MATH 4022 : Introduction to Graph Theory ; Fall 2023.
  - MATH 3012 : Applied Combinatorics ; Spring 2022.

High School Affiliated to Fudan University, China

- Teaching Assistant
  - Micro Lesson : Great ideas in Computer Science ; Spring 2019.

Fudan University, China

- Teaching Assistant
  - COMP120004 : Linear Algebra ; Fall 2017, Fall 2018.
  - MATH130002 : Advanced Algebra II ; Spring 2017.
  - MATH120011 : Advanced Algebra I ; Fall 2016.
  - PHIL130147 : Mathematical Logic II ; Spring 2016.
  - PHIL130175 : Mathematical Logic ; Fall 2015.

Referee for :

- Electronic Journal of Combinatorics
- International Colloquium on Automata, Languages and Programming (ICALP), twice