

Lucy Yang

Email : lyang@math.harvard.edu

Website : <http://lzyang257.github.io>

EDUCATION

Harvard University

Ph.D. in Mathematics

Cambridge, MA

Expected May 2023

University of Minnesota, Twin Cities

Bachelor of Science in Mathematics, Minor in Physics

Minneapolis, MN

May 2018

Math in Moscow

Independent University of Moscow and NRU Higher School of Economics

Moscow, Russia

Feb.-May. 2017

University of Oxford

Visiting Student

Oxford, UK

Sept.-Nov. 2016

RESEARCH INTERESTS

- ▶ Homotopy theory, trace methods for algebraic K-theory, real algebraic geometry, categorical dynamics

PREPRINTS

- ▶ A descent view on Mitchell's theorem *with E. Elmanto & D. Nardin.* *Aug. 2020*
preprint available at [arXiv:2008.02821](https://arxiv.org/abs/2008.02821).

HONORS AND AWARDS

- ▶ NSF Graduate Fellowship *2018-2023*

CONTRIBUTED TALKS

- ▶ Cyclotomic spectra and TC *European Talbot June 2019*
- ▶ Formality of the little n -disks operad *Feb. 2020*
- ▶ Condensed sets *Thursday seminar Sept. 2020*
- ▶ Poincaré ∞ -categories *Regensburg Oberseminar Dec 2020*
- ▶ Descent and vanishing in chromatic algebraic K-theory *Thursday Seminar March 2021*
- ▶ Dieudonné modules *Talbot workshop Oct. 2021*
- ▶ Algebraic surgery for regular coherent rings *Regensburg Oberseminar June 2021*
- ▶ The character map for tempered cohomology *Regensburg Oberseminar June 2022*

TEACHING EXPERIENCE

- ▶ TA for Math 22A, Harvard *Fall 2021 & Fall 2022*
- ▶ TA for PHYS 1302W, UMN *Fall 2015*

SERVICE AND ORGANIZATIONAL ACTIVITIES

- ▶ Mentor, Directed reading program 2019
Mentored undergraduate reading projects on knot theory and category theory
- ▶ Mentor, MIT PRIMES program 2021
Mentored a research project on topological data analysis for high school students
- ▶ Organizer, Harvard Real Representation lunches (formerly Womxn in Math) 2019-2021
- ▶ Organizer, Talbot Workshop 2019-
- ▶ Organizer, Juvitop seminar *Spring 2020-Spring 2021*