Lucy Yang
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EDUCATION

Harvard University   Cambridge, MA
Ph.D. in Mathematics   *Expected May 2023*

University of Minnesota, Twin Cities   Minneapolis, MN
Bachelor of Science in Mathematics, Minor in Physics   *May 2018*

Math in Moscow   Moscow, Russia
Independent University of Moscow and NRU Higher School of Economics   *Feb.-May. 2017*

University of Oxford   Oxford, UK
Visiting Student   *Sept.-Nov. 2016*

RESEARCH INTERESTS

Homotopy theory (incl. equivariant, motivic, chromatic), trace methods for algebraic K-theory and cohomological invariants of schemes, categorical dynamics

PREPRINTS

▸ Categorical dynamics on stable module categories.   *Dec. 2022*
  preprint available at arXiv:2212.09964.

▸ A descent view on Mitchell's theorem *with E. Elmanto & D. Nardin.*   *Aug. 2020*
  preprint available at arXiv:2008.02821.

HONORS AND AWARDS

▸ NSF Graduate Fellowship   *2018-2023*

INVITED TALKS

▸ A real Hochschild–Kostant–Rosenberg theorem   *University of Warwick Dec. 2020*
▸ A real Hochschild–Kostant–Rosenberg theorem   *UPenn Dec. 2020*
▸ Categorical dynamics on stable module categories   *Columbia University Dec. 2020*
▸ A real Hochschild–Kostant–Rosenberg theorem   *UCLA Nov. 2020*
▸ A real Hochschild–Kostant–Rosenberg theorem   *UChicago Oct. 2020*
▸ A real Hochschild–Kostant–Rosenberg theorem   *Northwestern University Oct. 2020*

CONTRIBUTED TALKS

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

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*