

Tongtong Liang

Curriculum Vitae

SUSTech

Shenzhen

China

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Research Interests

Algebraic topology and algebraic geometry, especially homotopy theory and its applications.

Homepage

tongtongliang.github.io

Education

2021–Present **Southern University of Science and Technology, China**, *Master in Mathematics (expected June, 2023)*, Advisor: Yifei Zhu

2017–2021 **Southern University of Science and Technology, China**, *Bachelor in Mathematics with Honors*

2014–2017 **Shenzhen Middle School, China**, *Experimental Curriculum*

Seminar Organizing

2021–Present Graduate topology seminar

2020 Online seminar on higher categories

2019 Seminar on geometry and topology

Presentations

2022	Quillen's theorem on formal group laws	Graduate topology seminar
2022	Methods of homotopy theory in algebraic geometry	Graduate topology seminar
2021	From model categories to ∞ -categories	Seminar on model categories
2021	All concepts are Kan extensions	Seminar on model categories
2021	Homotopy coherence problem and ∞ -categories	Graduate topology seminar
2021	Introduction to spectral sequences	Graduate topology seminar
2021	Introduction to Steenrod operations	Graduate topology seminar
2021	On the Grothendieck-Riemann-Roch theorem	Seminar on algebraic number theory
2020	An introduction to higher categories	Online seminar on higher categories
2019	Introduction to schemes	Seminar on geometry and topology
2018	Introduction to ringed spaces	Seminar on geometry and topology
2018	Introduction to categories and sheaves	Seminar on geometry and topology

Summer School Participation

- | | | |
|------|--|------------------------------------|
| 2022 | Summer School on Chromatic Homotopy Theory and Higher (Infinity-Categorical) Algebra | <i>BIMSA(online)</i> |
| 2021 | Summer School on Equivariant Homotopy Theory | <i>Fudan University(online)</i> |
| 2020 | Motivic, Equivariant and Non-commutative Homotopy Theory | <i>IHES(online)</i> |
| 2019 | Algebra and Number Theory | <i>Chinese Academy of Sciences</i> |

Academic Awards

- | | |
|-----------|--|
| Jan. 2022 | Outstanding Teaching Assistant Award |
| Jun. 2021 | Outstanding Undergraduate Thesis Award |

Grades

- | | |
|--------------|----------------------------------|
| Master GPA | 3.8/4 (1 st in class) |
| Bachelor GPA | 3.71/4 |

Teaching

- | | |
|-------------|---|
| Fall 2021 | Teaching assistant for MA213-16 (Mathematical Analysis) |
| Spring 2021 | Grader for MAT8021 (Algebraic Topology) |

Outreach

- | | | |
|--------------|----------------------|---|
| 2021–2022 | Student tutor | <i>Learning Center, SUSTech</i> |
| 2021–Present | Barista | <i>Camerata Coffee Community, SUSTech</i> |
| 2020–Present | Sports rehabilitator | <i>Combat club, SUSTech</i> |