## **JIACHENG LIANG**

Curriculum Vitae

Солтаст	
■ abcaiyukang@qq.com Homepage: 552jc.github.io/ljc	552.github.io
Department of Mathematics, M5021 College of Science, Southern University of Science and Technology Xueyuan Avenue 1088 Shenzhen, Guangdong, China	
Research Interests	
The orientation theory from Thom spectra, higher algebra, reformulations of chron formal (spectral) algebraic geometry, spectral moduli problems, and various interse theory and algebraic geometry.	natic homotopy theory by ctions between homotopy
EDUCATION	
<b>Southern University of Science and Technology</b> , Shenzhen, China <i>Master</i> in Mathematics, expected June 2024 Advisor: Yifei Zhu	2022 – 2024(expected)
Sichuan University, Chengdu, Sichuan, China <i>B.S.</i> in Physics	2018 - 2022
Short-term Visits	
<b>Southern University of Science and Technology</b> , Shenzhen, China Visiting student Advisor: Yifei Zhu	2021.11 - 2022.5
Selected Talks	
An overview of $\infty$ -categories and higher algebra Graduate Topology Seminar at SUSTech	December 26, 2023
The $\sigma$ -orientation and its AHR $E_{\infty}$ -refinement $Mstring \rightarrow tmf$ IWoAT Summer School 2023: Operads, spectra, and multiplicative structures BIMSA, Beijing, China	August 17, 2023
Thom spectra, infinite loop spaces, generalized cocycles, and the $\sigma$ -orient Graduate Topology Seminar at SUSTech	tation May 23, 2023
Sites, Sheaves, Formal Groups and Stacks Graduate Topology Seminar at SUSTech	December 06, 2022
Elliptic curves and Abelian varieties Undergraduate topology seminar, Sichuan University	May 30, 2022
Monads, $E_{\infty}$ -spectra and model categories Graduate Topology Seminar at SUSTech	December 01, 2021
The Stable homotopy theory and EKMM framework	November 18, 2021

Graduate Topology Seminar at SUSTech

Bousfield Localization and K(n)-local stable homotopy theory	March 22, 2021
Undergraduate topology seminar, Sichuan University	
Landweber exact theorem and Lubin-Tate spectra Undergraduate topology seminar, Sichuan University	November 02, 2020
Quillen's theorem: complex cobordism and formal groups Undergraduate topology seminar, Sichuan University	September 30, 2020
MO is a graded E-M spectrum by calculating Steenrod operations Undergraduate topology seminar, Sichuan University	June 21, 2020
Characteristic classes from viewpoint of algebraic topology Undergraduate topology seminar, Sichuan University	March 13, 2020
Brown representability theorem and generalized cohomology theories Undergraduate topology seminar, Sichuan University	December 15, 2019
<b>Obstruction theory in algebraic topology</b> Undergraduate topology seminar, Sichuan University	September 08, 2019
Serre spectral sequence and homotopy groups of spheres Undergraduate topology seminar, Sichuan University	June 25, 2019
A proof of Non-embeddability from Klein bottle into R <sup>3</sup> Undergraduate topology seminar, Sichuan University	May 8, 2019
Second Se	
Graduate Topology Seminar at SUSTech	2021-present
• Undergraduate topology seminar at Sichuan University	2019-2022

• Undergraduate topology seminar at Sichuan University

## TEACHING

- Teaching assistant for MA201b(Ordinary Differential Equation), Spring 2023.
- Grader for MAT8021, Spring 2023 (Algebraic topology).

## **MISCELLANEOUS**

- Blog about algebraic topology: www.zhihu.com/people/liang-jia-cheng-60-11/posts
- Placed third in Table Tennis Freshman Competition 2022 at department of mathematics, SUSTech

## REFERENCES

- Guozhen Wang, Fudan University, wangguozhen@fudan.edu.cn
- Zhouli Xu, University of California, San Diego, xuzhouli@ucsd.edu
- Zhen Huan, Huazhong University of Science and Technology, 2019010151@hust.edu.cn
- Yifei Zhu (advisor), Southern University of Science and Technology, zyf@umn.edu
- Jack Davies, Universität Bonn, davies@math.uni-bonn.de