

# Bingyu ZHANG 张秉宇

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## Employment

<b>University of Southern Denmark (SDU)</b>	<b>Odense, Denmark</b>
<i>Post-Doc at Centre for Quantum Mathematics</i>	<i>2022-Present</i>
Mentor: Vivek Shende	

## Education

<b>Université Grenoble Alpes</b>	<b>Grenoble, France</b>
<i>Ph.D. in Pure mathematics</i>	<i>2019-2022</i>
Thesis: Sheaf Techniques and Symplectic Geometry	
Advisor: Damien Gayet, Stéphane Guillermou and Claude Viterbo	
<b>Université Grenoble Alpes</b>	<b>Grenoble, France</b>
<i>M2R Fundamental Mathematics</i>	<i>2018-2019</i>
Advisor: Stéphane Guillermou	
<b>Academy of Mathematics and Systems Science, CAS</b>	<b>Beijing, China</b>
<i>MS in Pure Mathematics</i>	<i>2015-2018</i>
Advisor: Wei-dong RUAN (阮卫东)	
<b>Hunan University</b>	<b>Changsha, Hunan, China</b>
<i>BS in Mathematics</i>	<i>2011-2015</i>
Advisor: Jun LI (李军)	

## Papers

- **On the Hochschild cohomology of Tamarkin categories**  
Joint with Christopher Kuo and Vivek Shende. Preprint: arXiv 2312.11447. Submitted.
- **Contact non-squeezing at large scale via generating functions**  
Joint with Maia Fraser and Sheila Sandon. Preprint: arXiv 2310.11993. Submitted.
- **Idempotence of microlocal kernels and  $S^1$ -equivariant Chiu-Tamarkin invariant**  
Preprint: arXiv 2306.12316. Submitted.
- **Capacities from the Chiu-Tamarkin Complex**  
To appear in Journal of Symplectic Geometry. arXiv 2103.05143.

## Talks

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### • Conference talks

Jul. 2023: Workshop on Geometric Representation Theory and Applications, YMSC/Tsinghua University, Beijing (Student presentation)

Mar. 2023: Pseudoholomorphic Curves in Hamiltonian Dynamics, Mathematical Institute Heidelberg

Feb. 2022: ANR COSY meeting, Paris (Online presentation)

Jan. 2022: Global Youth Forum 2022, IGP, University of Science and Technology of China, Hefei (Online)

Oct. 2021: UU-Nantes Workshop on Lagrangian cobordisms and Floer theory, Uppsala

### • Seminar talks

Jan. 2024: Symplectix Seminar, Institut Henri Poincaré, Paris

Dec. 2023: Topology Seminar, IRMA, Strasbourg

Nov. 2023: Bonn Symplectic Geometry Seminar, MPIM, Bonn

Aug. 2023: Institute of Mathematical Sciences, ShanghaiTech University, Shanghai

Aug. 2023: AMSS, Chinese Academy of Sciences, Beijing

Mar. 2023: QM Research Seminar, CQM, University of Southern Denmark, Odense

Nov. 2022: QM Research Seminar, CQM, University of Southern Denmark, Odense

Oct. 2022: Institute of Mathematical Sciences, ShanghaiTech University, Shanghai

Sep. 2022: Western Hemisphere Virtual Symplectic Seminar (Online)

Sep. 2022: Séminaire compréhensible, Institut Fourier, Grenoble

Feb. 2022: Geometry Seminar, Department of mathematics, Tsinghua University, Beijing

Dec. 2021: Topology Seminar, IRMA, Strasbourg

Noc. 2021: Geometry and Topology Seminar, Toulouse

Nov. 2021: Symplectix Seminar, Institut Henri Poincaré, Paris

Oct. 2021: Topology Seminar, Institut Fourier, Grenoble

Apr. 2021: Symplectic Zoominar, CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris (Online)

Aug. 2021: Virtual Kylerec Seminar (Online)

Nov. 2020: Séminaire compréhensible, Institut Fourier, Grenoble (Online)

## Awards

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2018: IDEX M2 Scholarship of Université Grenoble Alpes.

2015: Excellent New Student Scholarship, AMSS, CAS.

2014: Shiing-Shen Chern (Geometry and Topology) Silver Award, S.T.Yau College Student Mathematics Contests.

## Activities Organized

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Autumn 2023: Learning Seminar on Mirror symmetry, CQM, SDU.

May 2020: Bingyu's Friends - Young Mathematicians Colloquium, Online.

Spring 2017: Student Seminar on K3 Surfaces, AMSS, CAS.

Winter 2016: Student Seminar on Homological algebra, Sheaves and Stacks, AMSS, CAS.

Spring 2016: Student Seminar on Gauge Theory, AMSS, CAS.

## Teaching

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Spring 2018: TA on Linear Algebra-II.

University of Chinese Academy of Sciences. **Instructor: Prof. Ziming LI (李子明).**

Autumn 2017: TA on Calculus-III A.

University of Chinese Academy of Sciences. **Instructor: Prof. Wei-dong RUAN (阮卫东).**

## Skill

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**Cooking:** Intermediate

*I would like to be a chef if I don't want to do math anymore.*

**Chinese:** Mother tongue

**English:** Intermediate

**French:** Beginner

*Maybe nothing*