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Positions

University of Southern Denmark (SDU)

Odense, Denmark

Post-Doc at Centre for Quantum Mathematics

2022-Present

Mentor: Vivek Shende (2022-2025), Jørgen Ellegaard Andersen (2025-2026)

Education

Université Grenoble Alpes

Grenoble, France

Ph.D. in Mathematics

2019-2022

Thesis: Sheaf Techniques and Symplectic Geometry

Advisor: Damien Gayet, Stéphane Guillermou and Claude Viterbo

Université Grenoble Alpes

Grenoble, France

M2R Mathematics and applications

2018–2019

Advisor: Stéphane Guillermou

Academy of Mathematics and Systems Science, CAS

Beijing, China

MS in Fundamental mathematics

2015–2018

Advisor: Wei-dong RUAN (阮卫东)

Hunan University

Changsha, Hunan, China

BS in Mathematics and applied mathematics

2011–2015

Advisor: Jun LI (李军)

Papers

• Published papers

○ A remark on Continuous K-theory and Fourier-Sato transform.

Accepted by *Proc. Am. Math. Soc.* arXiv 2506.02329.

○ Non-linear microlocal cut-off functors

Accepted by *Rend. Sem. Mat. Univ. Padova*. Published online first.

○ Contact non-squeezing at large scale via generating functions

Joint with Maia Fraser and Sheila Sandon.

Journal of Fixed Point Theory and Applications, 27, 46 (2025)

○ Capacities from the Chiu-Tamarkin Complex

Journal of Symplectic Geometry, 22(3) (2024), pp. 441-524.

• Preprints

- **Density of cotangent fibers in filtered Fukaya category**
Joint with Stéphane Guillermou and Claude Viterbo. In preparation.
- **S^1 -action on the Hochschild homology of the Tamarkin Category**
Joint with Wenyuan Li. In preparation.
- **Almost mathematics, Persistence module, and Tamarkin category**
Joint with Tatsuki Kuwagaki. Preprint: arXiv 2503.15933. Submitted.
- **On the Hochschild cohomology of Tamarkin categories**
Joint with Christopher Kuo and Vivek Shende. Preprint: arXiv 2312.11447. Submitted.
- **Idempotence of microlocal kernels and S^1 -equivariant Chiu-Tamarkin invariant**
Preprint: arXiv 2306.12316.

Teaching

Fall 2025: Riemannian Geometry.

University of Southern Denmark. **Instructor**

Fall 2025: Advanced Topics in Geometry and Topology: Higher category and microlocal theory of sheaves.

University of Southern Denmark. **Instructor**

Summer 2025: Introduction to Morse theory.

Yunnan Normal University. Advanced Workshop in Mathematics II, 2025. **Instructor**

Spring 2025: Advanced Topic in Quantum Mathematics: Toric Geometry and F-theory.

University of Southern Denmark. **Instructor**, joint with Muyang Liu.

Fall 2023: Advanced Topics in Geometry and Topology: Introduction to Mirror Symmetry.

University of Southern Denmark. **Instructor**

Spring 2018: TA on Linear Algebra-II.

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

Fall 2017: TA on Calculus-III A.

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

Talks

• Conference talks

Jan. 2026: Invited talk at International Congress of Chinese Mathematicians (ICCM) 2025, Shanghai

Oct. 2024: Uppsala-Odense Geometry Days, Uppsala

Sep. 2024: Workshop on Generalized complex structure and homological methods, University of Hamburg, Hamburg

Jul. 2023: Workshop on Geometric Representation Theory and Applications, YMTC/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

Sep. 2025: Séminaire de topologie, géométrie et algèbre, Laboratoire de Mathématiques Jean LERAY, Nantes
Jul. 2025: AMSS, Chinese Academy of Sciences, Beijing
Jul. 2025: BICMR, Peking university, Beijing
Jul. 2025: Department of Mathematics, Shanghai Jiao Tong University , Shanghai
Jul. 2025: Institute of Mathematical Sciences, ShanghaiTech University, Shanghai
Jul. 2025: School of mathematics, Zhejiang University, Hangzhou
May. 2024: Everytopic Seminar, Brandeis University
Apr. 2024: Topology Seminar, University of Southern California
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
Oct. 2022: Institute of Mathematical Sciences, ShanghaiTech University, Shanghai
Sep. 2022: Western Hemisphere Virtual Symplectic Seminar (Online)
Feb. 2022: Geometry Seminar, Department of mathematics, Tsinghua University, Beijing
Dec. 2021: Topology Seminar, IRMA, Strasbourg
Nov. 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)

Activities (co-)Organized

Spring 2024: QM Research Seminar, CQM, SDU. co-Organized.

Fall 2023: QM Research Seminar, CQM, SDU. co-Organized.

Awards

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.

Skill

Cooking: Intermediate

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

Programming Language: Python, C++

Software: Mathematica, Matlab

Language: Chinese (native), English(fluent), French(A1)