

EMAIL	chrislpkuo@berkeley.edu
INTEREST	<ul style="list-style-type: none"> <li>• Microlocal Sheaf Theory</li> <li>• Symplectic and Contact Geometry</li> <li>• D-modules</li> <li>• Noncommutative geometry</li> <li>• Mirror Symmetry</li> </ul>
EDUCATION	<ul style="list-style-type: none"> <li>• Ph. D. in Mathematics, UC Berkeley, 2016-2022. Advisor: Vivek Shende. Thesis title: Symplectic geometric methods in microlocal sheaf theory.</li> <li>• B.S. in Mathematics, National Taiwan University, Taipei, Taiwan 2010-2014. Advisor: Chung-Jun Tsai. Undergrad thesis title: A calculation for the Hard Lefschetz map on six-manifolds constructed by Coisotropic Luttinger Surgery</li> </ul>
EMPLOYMENT	<ul style="list-style-type: none"> <li>• Postdoc for Noncommutative Algebraic Geometry, SLMATH, Spring 2024.</li> <li>• Herbert and Ruth Busemann Assistant Professor in Mathematics, University of Southern California, Fall 2023, currently on leave.</li> <li>• Assistant Professor (RTPC) of Mathematics, University of Southern California, Fall 2022 - Spring 2023.</li> </ul>
RESEARCH	<ul style="list-style-type: none"> <li>• On the Hochschild cohomology of Tamarkin categories. <a href="#">arXiv:2312.11447</a>. Joint work with Vivek Shende and Bingyu Zhang.</li> <li>• Duality and spherical adjunction for microlocal sheaves – An approach by contact isotopies. <a href="#">arXiv:2210.06643</a>. Joint work with Wenyuan Li.</li> <li>• Perverse Microsheaves. <a href="#">arXiv:2209.12998</a>. Joint work with Laurent Côté, David Nadler, and Vivek Shende.</li> <li>• Wrapped sheaves. <i>Advances in Mathematics</i> 415 (2023): 108882.</li> </ul>
PH.D. STUDENTS SUPERVISED	<ul style="list-style-type: none"> <li>• Haosen Wu, current, co-supervised under Sheel Ganatra.</li> </ul>
TEACHING EXPERIENCE	<ul style="list-style-type: none"> <li>• Instructor, Math 144, Foundations of Statistics, University of Southern California, Fall 2023</li> <li>• Instructor, Math 245, Mathematics of Physics &amp; Engineering I, University of Southern California, Spring 2023</li> <li>• Instructor, Math 125g, Calculus I, University of Southern California, Fall 2022</li> <li>• Graduate Student Instructor, Math 110 Linear Algebra, UC Berkeley, Spring 2020</li> <li>• Graduate Student Instructor, Math 16B Analytic Geometry and Calculus, UC Berkeley, Spring 2019</li> <li>• Graduate Student Instructor, Math 54 Linear Algebra and Differential Equations, UC Berkeley, Fall 2017 and Fall 2018</li> <li>• Graduate Student Instructor, Math 53 Multivariable Calculus, UC Berkeley, Spring 2017</li> <li>• Graduate Student Instructor, Math 1A Calculus, UC Berkeley, Fall 2016</li> </ul>

- Teaching Assistant, Geometry (Required course for juniors), National Taiwan University, Fall 2013
- SEMINARS
- Co-organizer, Topology seminar, University of Southern California, Fall 2022-23
  - Organizer, Deformation quantization modules learning seminar, Syddansk Universitet, Spring 2022
  - Organizer, Deformation quantization modules learning seminar, Syddansk Universitet, Fall 2021
- INVITED TALKS
- Globalizing the microlocal Riemann-Hilbert correspondence, Algebraic Geometry Seminar, Academia Sinica, January 2024.
  - Globalizing the microlocal Riemann-Hilbert correspondence, Geometry Seminar, Kyushu University, January 2024.
  - Microlocal Riemann-Hilbert correspondence, QM Research Seminar, University of Southern Denmark, December 2023.
  - Microlocal Riemann-Hilbert correspondence, Bonn symplectic geometry seminar, December 2023.
  - Perverse Microsheaves, Mathematics Seminars, Montana State University, October 2023.
  - Perverse Microsheaves, Differential geometry and symplectic topology seminar, University of Minnesota, September 2023.
  - Sheaf Theoretic Methods in Symplectic Geometry, NCTS Differential Geometry Seminar, National Center for Theoretical Sciences, Taipei City, May 2023.
  - Microlocal sheaf theory in noncommutative geometry, Algebraic Geometry Seminar, Academia Sinica, Taipei City, May 2023.
  - Microlocal sheaf theory in noncommutative geometry, UCSB Seminar on Geometry and Arithmetic, University of California, Santa Barbara, May 2023.
  - Wrapped sheaves, Topology Seminar in USC, September 2022
  - Wrapped sheaves, QM Research Seminar in SDU, March 2022
  - Wrapped sheaves, U. Iowa Topology Seminar, December 2021
- SEMINAR AND TALKS
- Nondisplaceability results for Lagrangians in toric symplectic manifolds, Southern California Symplectothron, October 2022
  - Hochschild homology, Deformation quantization modules learning seminar, Syddansk Universitet, February 2022
  - Kernels, Deformation quantization modules learning seminar, Syddansk Universitet, December 2021
  - Algebroids, Deformation quantization modules learning seminar, Syddansk Universitet, November 2021
  - Nonlinear regularity and local existence, J-Holomorphic curves learning seminar, Syddansk Universitet, October 2021
  - Deformation of a sheaf of rings, Deformation quantization modules learning seminar, Syddansk Universitet, October 2021
  - $E_n$ -algebras and iterated loop spaces, Geometric Representation Theory seminar, UC Berkeley, Spring 2020

- Speaker, Wrapped Floer Homology Learning Seminar, Fall 2019
- Hochschild-Kostant-Rosenberg theorem through loop spaces , Geometric Representation Theory seminar, UC Berkeley, November 27 and December 14 2018
- Koszul duality for algebras, Deformation Theory Seminar, UC Berkeley, October 15 2017
- Gerbes. Mayer-Vietoris calculations, K-theory Seminar, UC Berkeley, April 2017
- Adams operation, K-theory Seminar, UC Berkeley, February 2017
- Winter Camp for Fundamentals in Mathematics for College Students, National Taiwan University, January 23-February 8, 2013

#### PROFESSIONAL SERVICE

- Co-organizer, The Los Angeles Workshop on Representations and Geometry (LAWRGe), Summer 2023
- Referee for Annals of Mathematics

#### AWARDS AND HONORS

- Shing-Tung Yau College Student Mathematics Contest, Bronze medal in geometry and topology, 2014
- Honors Program in Mathematics, National Taiwan University, 2014
- Chow Hung-Ching Scholarship, Institute of Mathematics - Academia Sinica, 2013