

WENYUAN LI

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Locy Hall 210, 1850 Campus Drive, Evanston, IL, U.S.

EDUCATION

- Department of Mathematics, Northwestern University** *09/2018-*
Ph.D. candidate in mathematics
Advisor: Prof. Emmy Murphy & Prof. Eric Zaslow.
- Department of Mathematics, Princeton University** *09/2021-06/2022*
Visiting graduate student
- Department of Mathematics, Peking University** *09/2015-07/2018*
B.A. in mathematics
Advisor: Prof. Huijun Fan,
Undergraduate thesis: Geometry of Lagrangian submanifolds in symplectic manifolds.
- Department of Psychology, Peking University** *09/2014-09/2015*

RESEARCH INTEREST

Symplectic topology, contact topology, microlocal sheaf theory, the relation with Floer theory, and connections to cluster theory, mirror symmetry and persistence modules.

PAPERS AND PREPRINTS

- Lagrangian cobordism functor in microlocal sheaf theory**,
arXiv preprint, arXiv:2108.10914.
- Estimating Reeb chords using microlocal sheaf theory**,
arXiv preprint, arXiv:2106.04079.
- Conjugate fillings and Legendrian weaves**,
joint with Roger Casals, in preparation.
- Duality and spherical adjunctions for microlocal sheaves**,
joint with Christopher Kuo, in preparation.

RESEARCH TALKS

- Symplectic and Poisson Geometry Seminar** at UIUC
Conjugate fillings and Legendrian weaves *Oct 3, 2022*
- Symplectic Geometry Seminar** at Uppsala University (online)
Lagrangian cobordism functor in sheaf theory *Sep 29, 2022*
- Geometry & Topology Seminar** at Michigan State University
Lagrangian cobordism functor in microlocal sheaf theory *Mar 1, 2022*
- Symplectic Zoominar** CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris
Short talk - Estimating Reeb chords using microlocal sheaf theory *Dec 17, 2021*

EXPOSITORY TALKS

- Symplectic ‘N’ Contact Topology Early Career Workshop**
Exotic Weinstein structure with many closed Lagrangians *Aug 9, 2022*
- Virtual Kylerec Student Seminar 2021**
An introduction to loose Legendrians in high dimensions *Jun 15, 2021*
- Graduate Student Seminar** at Northwestern University

Meromorphic differential equations and Riemann-Hilbert correspondence	<i>Feb 19, 2021</i>
Graduate Student Seminar at Northwestern University Does symplectic topology of T^*M remember the smooth topology of M ?	<i>Nov 13, 2020</i>
Graduate Student Seminar at Northwestern University Asymptotically flat symplectic manifolds	<i>Apr 19, 2019</i>
Mirror Symmetry Seminar run by Professor Huijun Fan & Professor Bo Dai Keating's Lagrangian tori in four-dimensional Milnor fibers Lagrangian surgery and computations of Maslov index	<i>Oct, 2017</i>

TEACHING EXPERIENCE

GRE Sub preparation, Causeway Postbaccalaureate Certificate Program, instructor	<i>Summer 2022</i>
MATH 300-BR, Foundations of higher mathematics, TA	<i>Summer 2022</i>
MATH 290-3, MENU Linear algebra and multivariable calculus III, TA	<i>Spring 2021</i>
MATH 330-3, Abstract algebra III, TA	<i>Spring 2021</i>
MATH 290-2, MENU Linear algebra and multivariable calculus II, TA	<i>Winter 2021</i>
MATH 330-2, Abstract algebra II, TA	<i>Winter 2021</i>
MATH 290-1, MENU Linear algebra and multivariable calculus I, TA	<i>Fall 2020</i>
MATH 330-1, Abstract algebra I, TA	<i>Fall 2020</i>
MATH 230-1, Multi variable differential calculus, TA	<i>Spring 2020</i>
MATH 230-1, Multi variable differential calculus, TA	<i>Winter 2020</i>
MATH 220-1, Single variable differential calculus, TA	<i>Fall 2019</i>

SERVICE AND OUTREACH

Directed reading program at Northwestern	<i>Spring 2021</i>
Northwestern Association for Women in Mathematics mentoring program	<i>Spring 2021</i>
Northwestern Putnam training sessions	<i>Fall 2019</i>
Northwestern Putnam training sessions	<i>Fall 2018</i>

ATTENDED CONFERENCES

Symplectic 'N' Contact Topology Early Career Workshop	<i>Aug 2022</i>
Mirror Symmetry for Looijenga Interior and Beyond, IMBM (attended virtually)	<i>Jul 2022</i>
Braids in Symplectic and Algebraic Geometry, ICERM (attended virtually)	<i>Mar 2022</i>
Recent Developments in Lagrangian Floer Theory, SCGP	<i>Mar 2022</i>
Workshop on the h -Principle and Beyond, IAS	<i>Nov 2021</i>
Special Session on Legendrian Knots and Surfaces, AMS sectional meeting (virtual)	<i>Apr 2021</i>
Graduate Student Topology and Geometry Conference (virtual)	<i>Apr 2021</i>
Homological Mirror Symmetry and Applications, IMSA (virtual)	<i>Jan 2021</i>
Legendrians, Cluster Algebras, and Mirror Symmetry (virtual)	<i>Jan 2021</i>
Floer-theoretic and Algebro-geometric Aspects of SYZ Mirror Symmetry (virtual)	<i>Sep 2020</i>
Special Session on Computational Aspects of Symplectic Topology, AMS sectional meeting (virtual)	<i>Apr 2020</i>
Homological Mirror Symmetry and Topological Recursion, IMSA	<i>Jan 2020</i>