

Angela Wu

PERSONAL INFORMATION

Louisiana State University
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RESEARCH INTERESTS

Symplectic and Contact Geometry, Low-dimensional Topology, Knot Theory

EMPLOYMENT

Louisiana State University	2021-present
Position: Postdoctoral Researcher	

EDUCATION

London School of Geometry and Number Theory, University College London	2017-2021
Degree: Doctor of Philosophy Mathematics	
Supervisor: Dr. Steven Sivek (Imperial College London)	

University of Toronto	2013-2017
Honours Bachelor of Science with High Distinction	
Program of Study: Mathematics Specialist	

PUBLICATIONS

Weinstein presentations for high-dimensional antisurgery

with Ipsita Datta, Oleg Lazarev, and Chindu Mohanakumar
(draft available upon request)

Lagrangian zigzag cobordisms

with Josh Sabloff, Shea Vela-Vick, and Mike Wong
[arXiv:2308.02057](#) (submitted)

Lagrangian cobordisms of positroid links

with Johan Asplund, Youngjin Bae, Orsola Capovilla-Searle, Marco Castronovo, and Caitlin Leverson
[arXiv:2305.16232](#) (submitted)

Obstructing Lagrangian concordance for closures of 3-braids

[arXiv:2201.08466](#) (submitted)

Weinstein handlebodies for complements of smoothed toric divisors

with Bahar Acu, Orsola Capovilla-Searle, Agnès Gadbled, Aleksandra Marinković, Emmy Murphy, and Laura Starkston,
[arXiv:2012.08666](#) (to appear in *Memoirs of the AMS*)

An introduction to Weinstein handlebodies for complements of smoothed toric divisors

with Bahar Acu, Orsola Capovilla-Searle, Agnès Gadbled, Aleksandra Marinković, Emmy Murphy, and Laura Starkston,
[arXiv:2002.07983](#), *Research Directions in Symplectic and Contact Geometry and Topology*, pp. 217–243, Springer International Publishing, Cham, 2021.

GRANTS AND AWARDS

National Science Foundation NSF Standard Grant DMS-2039688, Principal Investigator (original PI: C-M Mike Wong) Project title: Floer Invariants, Cobordisms, and Contact Geometry Grant amount: USD 122,813	2023-present
American Mathematical Society AMS Simons travel grant Grant Amount: USD 5,000	2022-2023
University College London Overseas Research Scholarship	2018-2021
University of Toronto University College Galois Scholarship in Mathematics Gordon Cressy Student Leadership Award Dr. James A. and Connie P. Dickson Scholarship in Science and Math George Roderick Fraser Scholarship for Mathematical Studies	2015, 2016, 2017 2016 2014 2013

TEACHING

Louisiana State University Finite Dimensional Vector Spaces (MATH 4153) Sole instructor. Responsible for all class and assessment materials. Vertically Integrated Research Seminar (MATH 4997) Co-instructor, with D. S. Vela-Vick Honors Multivariable Calculus (MATH 2058) Sole instructor. Responsible for all class and assessment materials. Becoming a Scientist (SCI 1001) Instructor in coordinated course Multivariable Calculus (MATH 2057) Instructor in uncoordinated multisection course. Responsible for all class and assessment materials.	2023-2024 2021-2024 2022 2022 2021
University College London Logic (MATH0050), TA Algebra 3: Further Linear Algebra (MATH0014), TA Quantitative Methods I: Mathematical thinking (BASC0003), TA Math and computing course for humanities students, ran tutorials and python labs Quantitative Methods II: Data Science and Visualisation (BASC0005) Math and computing for humanities students, led discussion sessions and python labs Pure Math Tutorial in Algebra and Analysis (MATH0003, 0004, 0005, 0006), TA	2021 2019, 2020 2019, 2020 2018, 2019 2018-2020

University of Toronto

Calculus! (MAT137Y1), TA	2015, 2016, 2017
Linear Algebra II (MAT224H1), TA	2016

INVITED TALKS

Conferences and Colloquia

AMS Fall Central Sectional, Creighton University, Omaha Nebraska: Special Session on Interactions of Floer Homologies, Contact Structures, and Symplectic Structures	2023
Trisectors Workshop 2023, Connections with Symplectic Topology, UC Davis	2023
SEC Workshop on Low Dimensional Geometry and Topology, University of Alabama	2023
BIRS Workshop: Interactions between Symplectic and Holomorphic Convexity in 4 Dimensions	2023
AMS Spring Southeastern Sectional, Georgia Institute of Technology, Atlanta, Georgia: Special Session on Contact and Symplectic Topology in Dimensions 3 and 4	2023
SYNC Early Career Workshop on Symplectic and Contact Topology, UC Davis	2022
Nearly Carbon Neutral Geometric Topology Conference: Low-dimensional contact and symplectic topology	2021
Low-dimensional Topology and Symplectic Geometry Weekend Virtual Conference	2021
British Mathematical Colloquium and the British Applied Mathematics Colloquium	2021
SUMS Welcome Event Colloquium, University of Victoria	2018

Seminars

Princeton University/IAS Symplectic Seminar	2023
Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar	2023
Georgia Tech Geometry Topology Seminar and Pre-talk	2023
Michigan State Geometry and Topology Seminar	2023
Uppsala Universitet Geometry and Topology Seminar	2022
Philadelphia Area Contact Topology Seminar (PACT)	2022
University of Virginia Geometry Seminar	2022
Louisiana State University Geometry and Topology Seminar	2021
MIT Geometry and Topology Seminar	2021
Northern California Symplectic Geometry Seminar	2021
Western Hemisphere Virtual Symplectic Seminar (with Orsola Capovilla-Searle)	2021
The London Geometry and Topology Seminar, Imperial College London	2021
Séminaire de topologie, géométrie et algèbre, Le laboratoire de Mathématiques Jean Leray	2021
Cambridge Junior Geometry Seminar	2020

CONFERENCES ORGANIZED

AMS spring southeastern sectional special session (upcoming) Interactions of Contact and Symplectic Manifolds	2024
Nearly Carbon Neutral Geometric Topology topic group The topology of contact manifolds and Legendrian submanifolds	2023
AWM-AMS special session Women and gender minorities in symplectic and contact geometry and topology III	2022
AMS fall southeastern sectional special session Low dimensional symplectic and contact topology, their invariants and interactions	2021
WINGS: women in number theory and geometry retreat	2021
British Isles Graduate Workshop III	2019

SEMINARS ORGANIZED

LSU Geometry and Topology Seminar	2021-2023
LSU Informal Geometry and Topology Seminar	2022-2023
LSU Student Colloquium	2023

SERVICE AND OUTREACH

PhD Thesis Committee, Examiner	2023
LSU AWM Event Series Main organizer of events including talks and professional development featuring invited speakers	2022-2023
LSU Safe Space Certified	2023
London Maths Outreach Steering Committee Member, Co-founder, Teacher Classes Taught: Voting Theory, Knot Theory, Point Set Topology (Virtual) Classes Assisted: Cryptography	2018, 2019, 2020
First Year Learning Community (MAT157, MAT137), University of Toronto Mentor	2014, 2015, 2016, 2017
Toronto Math Union President, VP Academics	2016, 2017
Canada/USA Mathcamp Junior Counselor	2015, 2016, 2017