

Yunpeng Niu

Curriculum Vitae

Department of Mathematics
Stony Brook University
Stony Brook, NY 11794
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Research Interests

Symplectic Geometry, Mirror Symmetry, Low-Dimensional Topology, Gauge Theory

Education

2019– **Stony Brook University**, *Department of Mathematics*.

Ph.D. in Mathematics

Advisor: Kenji Fukaya

2015-2019 **Beijing Normal University**, *Department of Mathematics*.

B.Sc. in Mathematics, GPA 3.94/4

Thesis Advisors: Wenjiao Yan (BNU) and Si Li (Tsinghua)

Title: Group Structures and Localizations on Symplectic Manifolds

Short Visits

Spring 2018 **Rutgers University**, *Department of Mathematics*.

Visiting Student Program in Math Department, Hosted by Yanyan Li

Papers

(with M. Abouzaid and N. Bottman) *The Focus-Focus Addition Graph is Immersed*,
arXiv:2409.10377

Invited Talks

Sep 2024 **MIT**, *MIT Symplectic seminar*.

May 2024 **Stony Brook University**, *Symplectic Geometry, Gauge Theory, and Low-Dimensional Topology Seminar*.

Selected Honors and Awards

2024 Chairman's Award for Excellence in Service to the Department, University or Community
For Founding and Leading ENYGMMa

2019 Outstanding Thesis, Beijing Normal University
University Recognition for Undergraduate Thesis

2015-2019 First Prize Scholarship, Beijing Normal University

Teaching Experience

Stony Brook University

As Teaching Assistant

- Calculus A *Fall 2019, Fall 2022*
- Calculus B *Spring 2020, Spring 2021, Spring 2022*
- Calculus I *Fall 2021, Fall 2023*
- Linear Algebra *Fall 2020*
- Abstract Algebra *Fall 2023*

As Primary Instructor

- Linear Algebra *Summer 2020*

Workshops and Programs

As Participant

- July 2024 Simons Math Summer Workshop, *SCGP*
- August 2023 Simons Math Summer Workshop, *SCGP*
- April 2023 Concluding Conference of Simons Collaboration on Homological Mirror Symmetry, *SCGP*
- Nov 2022 Simons Collaboration on Homological Mirror Symmetry Annual Meeting, *Simons Foundation*
- May 2022 Recent Developments in Lagrangian Floer Theory, *SCGP*

Service and Outreach

2023- **ENYGMMa**, Empowering New York Gender Minority Mathematicians

A monthly inter-university seminar series held in rotation at CUNY, Columbia, NYU and Stony Brook University

Co-founder, Co-organizer and Main Coordinator

Languages

Chinese Native

English Fluent