

Yu-Shen Lin *Curriculum Vitae (November 2023)*

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Academic Interests

Symplectic geometry, Lagrangian Floer theory, mirror symmetry, geometric analysis related to Ricci-flat metrics and special Lagrangian geometry and interrelations among these subjects

Education

- Ph.D., Harvard University, May 2013 (Adviser: Shing-Tung Yau)
- B.S., National Taiwan University, Jun 2006.

Work Experience

- Assistant Professor, Boston University, 2018-present.
- Visiting Scholar, Center of Mathematical Sciences and Application, Harvard University, 2017-2018.
- Visiting Assistant Professor, Columbia University, 2016-2017.
- Szegő Assistant Professor, Stanford University, 2013-2016.
- Editorial Assistant, Journal of Differential Geometry, 2012-2013.
- Research Assistant, National Center for Theoretical Sciences (NCTS), June 2006-July 2007. (Supervisor: Chin-Lung Wang)

Student Supervised

- Sam Bardwell-Evans (IBS-CGP)
- Sidharth Soundararajan
- Malachi Allen (senior honor thesis)

Publication and Preprints

- *Collapsing of ALH-Gravitational Instantons*, joint work with Ryosuke Takahashi, preprint 2023, arXiv: 2305.16096.
- *Recent Progress on SYZ Conjecture*, joint work with Tristan Collins, preprint 2022, arXiv: 2208.14485, invited contribution to Surveys in Diff. Geom.
- *Period Domains of Gravitational Instantons*, joint work with Tsung-Ju Lee, preprint 2022, arXiv: 2208.13083. Accepted by Trans. Amer. Math. Soc.
- *SYZ mirror symmetry for del Pezzo surfaces and affine structures*, joint work with Siu-Cheong Lau and Tsung-Ju Lee, preprint 2022, arXiv: 2206.01681.

- *The Torelli theorem for ALH^* gravitational instantons*, joint work with Tristan Collins and Adam Jacob, Math Forum, Sigma (2022), Vol. 10: e79 1–11.
- *Scattering diagrams from holomorphic discs in log Calabi-Yau surfaces*, joint work with Sam Bardwell-Evans, Man-Wai Cheung, Hansol Hong, preprint 2021, arXiv:2110.15234. Submitted.
- *On the Comparison of SG/AG Mirror Constructions*, joint work with Man-Wai Cheung, to appear in the Proceeding of International Congress of Chinese Mathematicians 2021.
- *Some Examples of Family Floer Mirrors*, joint work with Man-Wai Cheung, preprint 2021, arXiv: 2101.07079. Submitted.
- *The SYZ Mirror Symmetry Conjecture for Del Pezzo Surfaces and Rational Elliptic Surfaces*, joint work with Tristan Collins and Adam Jacob, preprint 2020, arXiv: 2012.05416. Submitted.
- *Enumerative Geometry of Del Pezzo Surfaces*, preprint 2020, arXiv: 2005.08681, to appear in Trans. Amer. Math. Soc.
- *On the Complex Affine Structures of SYZ Fibrations of Del Pezzo Surfaces*, joint work with Siu-Cheong Lau and Tsung-Ju Lee, Adv. Theor. Math. Phys. Vol. 26, No. 4 (2022), pp. 921-955.
- *Decomposition of Lagrangian Classes on K3 Surfaces*, joint work with Kuan-Wen Lai and Luca Schaffler, Math. Res. Let. Vol. 28, No. 6 (2021), pp. 1739-1763.
- *Special Lagrangian Submanifolds in Log Calabi-Yau Manifolds*, joint work with Tristan Collins and Adam Jacob, Duke Math. J. 170 (7) 1291 - 1375.
- *Bulk-Deformed Potentials for Toric Fano Surfaces, Wall-Crossing and Period*, joint work with Hansol Hong and Jingyu Zhao, Int. Math. Res. Not., Vol. 2022, No. 16, pp. 12699–12766.
- *On the Tropical Discs Counting on Elliptic K3 Surfaces with General Singular Fibres*, Trans. Amer. Math. Soc. 373 (2020), 1385-1405.
- *Correspondence Theorem Between Holomorphic Discs and Tropical Discs on K3 Surfaces*, J. Differ. Geom. Vol. 117, No. 1 (2021), pp. 41-92.
- *Multiple Cover Formula for Reduced open Gromov-Witten Invariants on K3 Surfaces*, Adv. Math. 333 (2018), 1178–1196.
- *Open Gromov-Witten Invariants on Elliptic K3 Surfaces and Wall-Crossing*, Comm. Math. Phys. 349 (2017), no. 1, 109–164.
- *On the Refined Open Gromov-Witten Invariants on K3 Surfaces*, Proceedings of the Seventh International Congress of Chinese Mathematicians. Vol. II, 351–366, Adv. Lect. Math. (ALM), 44, Int. Press, Somerville, MA, 2019.
- *Counting Holomorphic Discs in K3 Surfaces*, Tsinghua lectures in mathematics, 293–314, Adv. Lect. Math. (ALM), 45, Int. Press, Somerville, MA, 2019.
- *Reduced Open Gromov-Witten Invariants on HyperKähler Manifolds*, Proceedings of the 6th International Congress of Chinese Mathematicians ALM37, pp. 235–252.
- *Open Gromov-Witten Invariants on K3 Surfaces and Wall-Crossing*, Dissertation, Harvard University.
- *Invariance of Plurigenera*, minor thesis at Harvard University.

Honors & Awards

- NSF grant DMS-2204109: Gravitational Instantons, Mirror Symmetry, and Enumerative Geometry, 2022-2025, \$157,604.
- Mathematics and Physical Sciences-Collaboration Grants for Mathematicians, 2019-2022.

- Simons Travel Grants, 2014–2015.
- New World Mathematics Awards, Gold Medal, 2013.
- Certificate of Distinction in Teaching, Spring 2011, Harvard University (evaluation 4.74/5).
- Certificate of Distinction in Teaching, Fall 2010, Harvard University (evaluation 4.75/5).

Invited Seminar Talks/Workshops/Conferences

- TBA, Pacific Rim Complex and Symplectic Geometry Conference, IBS Center for Complex Geometry, Korea, Jul 29– Aug 2, 2024.
- TBA, Geometry and Topology Seminar, UC Davis, Jan 9, 2024.
- On the special Lagrangians 3-spheres in Calabi-Yau 3-folds with K3-fibrations, East Asian Symplectic Conference 2023, Jeju, Korea, Oct 29– Nov 4, 2023.
- Gravitational Instantons, CMSA Colloquium, Harvard University, Sep 29, 2023.
- The Torelli theorem for ALH^* gravitational instantons, Geometry Seminar, Vanderbilt University, Aug 31, 2023.
- New Special Lagrangian Spheres in Calabi-Yau 3-Folds with K3 Fibrations, Recent Progress in Special Lagrangian Equations and Deformed Hermitian-Yang-Mills Equation, National Center for Theoretic Sciences and Mathematics (NCTS), Taiwan, Jul 17– Jul 21, 2023.
- On the Moduli Spaces of ALH^* -Gravitational Instantons, Geometric Analysis Seminar, University of Oregon, Jun 6, 2023.
- On the Moduli Spaces of ALH^* -Gravitational Instantons, Geometry and Topology Seminar, University of California Irvine, Jun 5, 2023.
- On the Moduli Spaces of ALH^* -Gravitational Instantons, Geometry and Topology Seminar, University of California Riverside, Jun 2, 2023.
- Special Lagrangian 3-Spheres in Calabi-Yau 3-Folds with K3 Fibrations, Symplectic Seminar, MIT, Apr 6, 2023.
- Symplectic scattering diagrams for Log Calabi-Yau Surfaces , Geometry, Physics and Representation Theory Seminar, Northeastern University, Mar 16, 2023.
- Ricci-Flat Metrics on the Complement of Singular Divisors, Differential National Taiwan University, Dec 30, 2022.
- A Uniqueness Theorem for 2D Complex Monge-Ampere Equations, NCTS Differential Geometry Seminar, National Taiwan University, Dec 29, 2022.
- Moduli Space of ALH^* -Gravitational Instantons, Differential Geometry Seminar, National Taiwan University, Dec 27, 2022.
- Moduli Space of ALH^* -Gravitational Instantons, Lambda Seminar, virtual talk, Nov 9, 2022.
- Scattering Diagrams from Lagrangian Floer Theory, Number Theory and Algebraic Geometry Seminar, Boston College, Oct 6, 2022.
- Existence of Minimal Lagrangians in K3 Surfaces, Special session on Lagrangian and Legendrian submanifolds, UMass Amherst, Oct 1–2, 2022.
- Construction of Special Lagrangian Fibrations on Log Calabi-Yau Surfaces, Geometric Analysis: Past, Present and Future 2022, virtual recorded talk with Q&A session.
- Scattering Diagrams of Looijenga Pairs from Lagrangian Floer Theory, SYZ Mirror Symmetry and its Applications, Banff International Research Station, Aug. 14–Aug. 21, 2022.

- Special Lagrangian Fibrations in Log Calabi-Yau Surfaces and Mirror Symmetry, Mirror symmetry for Looijenga interiors and beyond, Istanbul Matematiksel Bilimler Merkezi, Istanbul, Jul 25–Jul 29, 2022.
- A Torelli Type Theorem for ALH^* -Gravitational Instantons, Boston University/Keio University/Tsinghua University Workshop 2022, Boston University, Jun 27–Jul 1, 2022.
- SYZ Mirror Symmetry of Log Calabi-Yau Surfaces, Deformation of Geometric Structures in Current Mathematics: A Celebration of the Works of Masatake Kuranishi, CMSA/Harvard University, May 9–12, 2022.
- Enumerative Geometry of Del Pezzo Surfaces, Symplectic Monday Seminar, IBS-CGP, March 14, 2022.
- Implication of SYZ Conjecture outside of Mirror Symmetry, Algebraic Geometry in String Theory Seminar, Center of Mathematical Sciences and Applications, Harvard University, Feb 8, 2022.
- Torelli Theorem of ALH^* Gravitational Instantons, NCTS Seminar on Differential Geometry, National Taiwan University, Jan 6, 2022.
- Canonical Scattering Diagrams from Lagrangian Floer theory and Cluster Mirror Symmetry of Rank 2, Geometry and Topology Seminar, Michigan State University, Dec 14, 2021.
- Special Lagrangian Fibrations on Log Calabi-Yau Surfaces, Topology Seminar, University of Iowa, Aug 26, 2021.
- Recent Progress on the Strominger-Yau-Zaslow conjecture, Boston University/Keio University/Tsinghua University Workshop 2021, Jun 28–Jul 2, 2021.
Correspondence theorem between holomorphic discs and tropical discs on (Log)-Calabi-Yau Surfaces, Geometria em Lisboa Seminar, May 4, 2021.
- Special Lagrangian Fibrations in Log Calabi-Yau Surfaces and Mirror Symmetry, Algebraic Geometry in East Asia Online Seminar, Apr 16, 2021.
- *A Torelli type theorem for some gravitational instantons and mirror symmetry*, UC Riverside differential geometry seminar, Mar 5, 2021.
- *Full SYZ Conjecture for del Pezzo Surfaces and Rational Elliptic Surfaces*, CMSA mathematical physics seminar, Center of Mathematical Sciences and Applications, Feb. 22, 2021.
- *SYZ Mirror Symmetry on Projective Plane and enumerative geometry*, Western Hemisphere Virtual Symplectic Seminar, Feb. 12, 2021.
- Geometric Aspects of Cluster Varieties, SYZ Conjecture and an Example of Family Floer Mirror, QSMS Winter mini-school on Mirror symmetry and related topics, Center for Quantum Structures in Modules and Spaces, Korea, Jan. 18 & Jan. 21, 2021.
- On the comparison of the family Floer mirrors and GS/GHK Mirrors , ICCM 2020 Annual Meeting, University of Science and Technology of China, Dec. 27–29, 2020.
- A Possible Target to Test for SLAG/dHYM Correspondence, AIM Workshop of "Stability in Mirror Symmetry", San Jose, Dec. 7–11, 2020.
- *SYZ Mirror Symmetry of Del Pezzo Surfaces*, Online Workshop on Mirror Symmetry and Related Topics, Kyoto University, Dec. 7–11, 2020.
- *On the collapsing of Log Calabi-Yau surfaces and moduli of Ricci-flat metrics*, BU-Keio workshop in geometry/math physics, Boston University, Jun 29- Jul 3, 2020. Postponed due to Covid-19.
- *TBA*, Aarhus Complex Geometry Workshop, Aarhus, Jun 16–19, 2020 (postponed due to COVID-19).

- *TBA*, algebraic geometry seminar, University of Georgia, Apr. 15, 2020 (canceled due to COVID-19).
- *On the Some Examples of Family Floer Mirrors*, Geometry, Physics, and Representation Theory Seminar, Northeastern University, Feb 13, 2020.
- *The SYZ Fibration and Partial collapsing of the Log Calabi-Yau Surfaces*, NCTS Differential Geometry Seminar, National Center for Theoretical Sciences, Jan. 6, 2020.
- *Lectures on Kuranishi Structures*, Floer Homology Bootcamp, Fields Institute, Dec. 4, 2019.
- *On the SYZ Mirror Symmetry of Log Calabi-Yau Surfaces*, Differential Geometry Seminar, Harvard University, Nov. 12, 2019.
- *New Special Lagrangians and its Applications*, Geometry/Topology Seminar, Stony Brook, Nov. 5, 2019.
- *New Examples of special Lagrangian submanifolds in log Calabi-Yau manifolds*, NCTS seminar on Differential Geometry Seminar, Jul. 4, 2019.
- *New construction of special Lagrangian fibration*, geometry seminar, Seoul National University, Jun. 28, 2019.
- *Mirror symmetry and enumerative geometry*, colloquium, National Cheng Kung University, Jun. 19, 2019.
- *Existence of Special Lagrangians and Fibrations for Log Calabi-Yau Surfaces*, 8th International Congress of Chinese Mathematicians, Beijing, Jun. 8–14, 2019.
- *Special Lagrangian fibrations in weak Del Pezzo Surfaces*, Joint UCI-UCR-UCSD differential geometry seminar, University California Riverside, Jun. 4, 2019.
- *Disc Correspondence Theorem for Toric Fano Surfaces*, Symplectic geometry, gauge theory and categorification seminar, Columbia University, Apr 12, 2019.
- *Bulk-Deformed Superpotential of Toric Fano Surfaces and Quantum Periods*, SYZ Mirror Symmetry and Enumerative Geometry, AMS Sectional Meeting, University of Hawaii at Manoa, Mar 22–24, 2019.
- *Strominger-Yau-Zaslow Conjecture and Enumerative Geometry*, The International Consortium of Chinese Mathematicians, National Taiwan University, Dec. 27–29, 2018.
- *SYZ Fibration and Enumerative geometry of Calabi-Yau Surfaces*, Valley Geometry Seminar, UMass Amherst, Nov. 16, 2018.
- *SYZ Fibration and Enumerative geometry of (log) Calabi-Yau Surfaces*, Algebraic Geometry and Number Theory Seminar, Boston College, Nov. 8, 2018.
- *From Floer Theory to Tropical Geometry*, Simons Collaboration Workshop in Mirror Symmetry, Center of Mathematical Sciences and Applications, Apr. 5–7, 2018.
- *Tropical/Holomorphic Correspondence for HyperKähler Surfaces and Applications*, Differential Geometry Seminar, Harvard University, Feb 26, 2018.
- *Holomorphic Discs Counting and its Applications*, Special Geometry Seminar, Boston University, Jan. 18, 2018.
- *A Local Mirror Construction*, Member Seminar, Center of Mathematical Sciences and Applications, Dec. 1, 2017.
- *Open Gopakumar-Vafa Conjecture for Rational Elliptic Surfaces*, IAS/PU Symplectic Geometry Seminar, Institute of Advanced Studies, Nov. 27, 2017.
- *Algebraic Gluing of Holomorphic Discs in K3 Surfaces and Tropical Geometry*, Differential Geometry Seminar, University of California Irvine, Oct. 30, 2017.

- *Tropical Geometry of HyperKähler Surfaces with SYZ Fibrations*, Open Gromov-Witten theory, integrable hierarchies and mirror symmetry, Institute for Mathematical Research at ETH Zurich, Oct. 17–20, 2017.
- *On the Tropical Geometry of Elliptic K3 Surfaces with General Singular Fibres*, Geometry/Topology Seminar, University of Missouri, September 21, 2017.
- *From the Decomposition of Picard-Lefschetz Transformation to Tropical Geometry*, Mathematical Physics Seminar, Center of Mathematical Sciences and Applications at Harvard University, September 11, 2017.
- *Symplectic Realization of 4D Wall-Crossing Formula on HyperKähler Surfaces*, Mathematical Physics Seminar, Perimeter Institute, May 4, 2017.
- *Open Gromov-Witten Invariants in some Hitchin Moduli Spaces and the Multiple Cover Formula*, Enumerative Geometry Seminar, Columbia University, Apr. 3, 2017.
- *Special Lagrangians with Boundaries in Rational Elliptic Surfaces*, Geometry and Physics Seminar, Boston University, Mar. 29, 2017.
- *Tropical/Holomorphic Correspondence Theorem on K3 Surfaces*, Symplectic Geometry Seminar, University of Toronto, Montreal, Dec. 5, 2016.
- *The Correspondence Theorem on Elliptic K3 Surfaces*, Symplectic Geometry, Gauge Theory, and Categorification Seminar, Columbia University, New York, Nov. 18, 2016.
- *Open Gromov-Witten Invariants on K3 and its Tropical Analogue*, Algebraic Geometry Seminar, Ohio State University, Columbus, Nov. 15, 2016.
- *Existence of Special Lagrangian Discs in elliptic K3 surfaces via Tropical Geometry*, PDE and Differential Geometry Seminar, University of Connecticut, Connecticut, Oct. 17, 2016.
- *Refined Holomorphic Discs Counting via Tropics*, Seminar in Algebraic Geometry, Taida Institute of Mathematical Sciences, Taipei, Aug. 15, 2016.
- *On the Refined Open Gromov-Witten Invariants on K3 Surfaces*, International Congress of Chinese Mathematicians, Beijing, Aug. 5–11, 2016.
- *Counting Holomorphic Discs via Tropical Discs on K3 Surfaces*, Workshop on SYZ mirror symmetry and related topics, Harvard University, May 6–8, 2016
- *Counting Riemann Surfaces via Combinatorics*, Math Colloquium, University of Massachusetts Boston, May 4, 2016.
- *On the Corresponding Theorem between Tropical and Holomorphic Discs*, Geometry and Physics Seminar, Boston University, Feb 17, 2016.
- Young Geometric Analysts' Forum 2016, Sanya International Mathematics Forum, Jan. 18–22, 2016 (declined).
- *On the Tropical/Holomorphic Discs Correspondence on K3 Surfaces*, Moduli spaces, integrable systems, and topological recursions, Centre de Recherches Mathematiques, Jan. 10, 2016.
- *On the Reduced Open Gromov-Witten invariants and wall-crossing formula*, Geometry Seminar, UC Davis, Aug. 28, 2015.
- *Open Gromov-Witten Invariants and Real Noether-Lefschetz Theory*, TIMS Seminar in Algebraic Geometry, National Taiwan University, Jun. 17, 2015.
- *Counting Holomorphic Discs on Calabi-Yau 3-Folds with K3 Fibration and Real Noether-Lefschetz Theory*, Symplectic Geometry Seminar, Stanford University, Jan. 12, 2015.
- *Counting Holomorphic Discs in K3 Surfaces*, Tsinghua Sanya International Mathematics Forum, Dec. 15–18, 2014.
- *Reduced Open Gromov-Witten Invariants on HyperKähler Manifolds*, Geometry and String Theory Seminar, University of Texas at Austin, Mar. 26, 2014.

- *Reduced Open Gromov-Witten Invariants on HyperKähler Manifolds*, Northern California Symplectic Geometry Seminar, Stanford University, Mar. 3, 2014.
- *Open Gromov-Witten Invariants on Elliptic K3 Surfaces and Wall-Crossing*, International Congress of Chinese Mathematics, National Taiwan University, Jul. 19, 2013.
- *On the Discs Counting Invariants on : Elliptic K3 Surfaces and HyperKähler Metrics*, FRG Workshop on Gromov-Witten Theory, Mar. 12, 2013.
- *Open Gromov-Witten Invariants on K3 surfaces and Wall-Crossing*, Geometry and Topology Seminar, University of Wisconsin–Madison, Mar. 15, 2013
- *Open Gromov-Witten Invariants on K3 Surfaces and Wall-Crossing*, Geometry/Physics Seminar, Northwestern University, Dec. 4, 2012.
- *Discs Counting on Elliptic K3 Surfaces and Wall-Crossing*, Symplectic Geometry, Gauge Theory, and Categorification Seminar, Columbia University, Nov. 4, 2012.
- *Discs Counting on Elliptic K3 Surfaces and Wall-Crossing*, Differential Geometry Seminar, Harvard University, Oct. 30, 2012.
- *On the Disk Counting Invariants on Elliptic K3 Surfaces and HyperKähler Metric.*, Geometry and Physics Seminar, Boston University, Sep. 19, 2012.

Conference/Seminar Organization

- Geometry and Analysis Seminar for Boston Area Graduate Students, (co-organized with Tristan Collins, Siu-Cheung Lau and Shing-Tung Yau), Massachusetts Institute of Technology, Oct 29–30, 2022.
- Boston University/Keio University/Tsinghua University Workshop 2022, Geometry and Mathematical Physics, Boston University, Jun. 27–Jul. 1 (co-organized with Steve Rosenberg, Hiroyasu Izeki, Siu-Cheung Lau and Si Li).
- Geometry and Analysis Seminar for Boston Area Graduate Students, (co-organized with Tristan Collins, Siu-Cheung Lau and Shing-Tung Yau), Massachusetts Institute of Technology, Nov 6-7, 2021.
- "Mirror symmetry and enumerative geometry" special session, Eastern AMS Joint Meeting, Mar 20–21, 2021. (co-organized with Man-Wai Cheung and Siu-Cheung Lau).
- Boston University/Keio University/Tsinghua University Workshop 2021, Geometry and Mathematical Physics, virtually at Boston University, Jun. 28–Jul. 2 (co-organized with Steve Rosenberg, Hiroyasu Izeki, Siu-Cheung Lau and Si Li).
- BU Geometry and Physics Seminar (co-organized with Siu-Cheung Lau), Fall 2019-present.
- BC/BU Gross-Siebert Program Learning Seminar (co-organized with Qile Chen), Spring 2019-Fall 2020.
- "Mirror symmetry and enumerative geometry" special session, Eastern AMS Joint Meeting, Mar. 2020. (co-organized with Man-Wai Cheung and Siu-Cheung Lau). Canceled due to COVID-19.
- Boston University/Keio University Workshop 2020, Geometry and Mathematical Physics, Boston University, Jun. 29–Jul. 3 (co-organized with Steve Rosenberg, Hiroyasu Izeki and Siu-Cheung Lau). Postponed to summer 2021.

Public Service

- NSF Panelist

- MathScinet Reviewer
- Reviewer for the Journal of Differential Geometry, Acta Mathematica, Pure and Applied Mathematics Quarterly, Transaction of American Mathematical Society, New York Journal of Mathematics, MATRIX Annals, Journal of Algebraic Geometry.
- Mass Regional V Science Fair judge 2022, 2023.

Teaching

- Instructor, Boston University
 - MA 225 Multi-Variable Calculus, Fall 2018, Spring 2020, Fall 2020, Spring 2021, Fall 2021.
 - MA 226 Ordinary Differential Equations, Spring 2022, Spring 2023, Spring 2024.
 - MA 564 Topology I, Spring 2021, Spring 2023.
 - MA 731 Lie Groups and Lie Algebra, Spring 2022.
 - MA 745 Algebraic Geometry, Fall 2019, Fall 2022.
 - MA 821 Compact complex Surfaces, Fall 2020.
 - MA 821 Calabi-Yau metrics and special Lagrangians, Fall 2023.
 - MA 822 Mirror symmetry and Lagrangian Floer theory, Spring 2019.
 - Directed Study: Spring 2019, Spring 2020, Fall 2021 *2, Fall 2022, Spring 2023.
- Instructor, Columbia University (as the main instructor):
 - Calculus I: Fall 2016, Spring 2017.
- Instructor, Stanford University (as the main instructor):
 - Math 21: *Calculus*, Spring 2016.
 - Math 51: *Linear Algebra and Differential Calculus of Several Variables*, Fall 2015.
 - Math 52: *Integration Calculus of Several Variables*, Spring 2014, Winter 2015.
 - Math 53: *Ordinary Differential Equations with Linear Algebra*, Winter 2014.
 - Math 115: *Functions of a Real Variables*, Spring 2015.
 - Math 257c: *Symplectic Geometry and Topology*, Spring 2015.
- Instructor, Harvard University:
 - Math 1b: *One-variable Calculus*, Fall 2009, Fall 2010, and Spring 2011.
- Course Assistant, Harvard University, Differential Geometry, Fall 2008.

Conferences / Workshop Attended

- New England Algebraic Topology and Mathematical Physics Seminar, Boston University, Nov 11–12, 2023.
- East Asian Symplectic Conference 2023, Jeju-do, Korea, Oct 29– Nov 4, 2023.
- Boston Algebraic Geometry Day, MIT, Sep 23, 2023.

- Recent Progress in Special Lagrangian Equations and Deformed Hermitian-Yang-Mills Equation, , National Center for Theoretic Sciences and Mathematics (NCTS), Taiwan, Jul 17– Jul 21, 2023.
- 2022 Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Simons Foundation, NY, Nov. 3–4, 2022.
- Special session on Lagrangian and Legendrian submanifolds , UMass Amherst, Oct 1–2, 2022.
- Progress and Open Problems 2022, SCGP, Stony Brook, Sep. 11–14, 2022.
- AIM Workshop on "Geometry and physics of ALX metrics in gauge theory", American Institute of Mathematics, Jul. 25–29, 2022.
- SYZ Mirror Symmetry and its Applications, Banff International Research Station, Aug. 14–Aug. 21, 2022.
- Mirror symmetry for Looijenga interiors and beyond , Istanbul Matematiksel Bilimler Merkezi, Istanbul, Jul 25–Jul 29, 2022.
- Boston University/Keio University/Tsinghua University Workshop 2022, Boston University, Jun 27–Jul 1, 2022.
- Deformation of Geometric Structures in Current Mathematics: A Celebration of the Works of Masatake Kuranishi, CMSA/Harvard University, May 9–12, 2022.
- AIM Workshop of "Stability in Mirror Symmetry, American Institute of Mathematics, Apr. 25–29, 2022.
- 2021 Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Simons Foundation, NY, Nov. 18–19, 2022.
- QSMS Winter mini-school on Mirror symmetry and related topics, Center for Quantum Structures in Modules and Spaces, Korea, Jan. 18 & 21, 2021 (online).
- Legendrians, Cluster algebras, and Mirror symmetry, IBS Center for Geometry and Physics, Korea, Jan. 4–8, 2021 (online).
- ICCM 2020 Annual Meeting , University of Science and Technology of China, Dec. 27–29, 2020.
- AIM Workshop on "Stability in Mirror Symmetry", virtual, Dec. 7–11, 2020.
- Online Workshop on Mirror Symmetry and Related Topics, Kyoto University, Dec. 7–11, 2020.
- Floer-theoretic and algebro-geometric aspects of SYZ mirror symmetry, Sep. 29–Oct. 2, 2020 (online).
- Floer Homology Bootcamp, Fields Institute, Toronto, Dec. 2–6, 2019.
- Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Simons Foundation, New York, Nov. 14–15, 2019.
- The 8th International Congress of Chinese Mathematicians, Tsinghua University, Beijing, Jun. 9–14, 2019.
- AMS sectional meeting, University of Hawaii, Mar. 22–24, 2019.
- Workshop on Mirror Symmetry and Stability, Harvard University, Mar. 18–20, 2019.

- Conference on differential geometry, Calabi-Yau theory and general relativity, Harvard University, May 2-5, 2018.
- Simons Collaboration Workshop, Center of Mathematical Sciences and Applications, Apr. 5-7, 2018.
- Open Gromov-Witten theory, integrable hierarchies and mirror symmetry, Institute of Mathematical Research at Zurich, Oct. 17-20, 2017.
- Homological Mirror Symmetry and Higher Genus Invariants, Simons Center in Stony Brook, May 22-26, 2017
- Simons Collaboration on Homological Mirror Symmetry, University of Miami, Jan. 26-29, 2017.
- The 7th International Congress of Chinese Mathematicians, Beijing, Aug. 6-11, 2016.
- Simons Collaboration on Homological Mirror Symmetry, Harvard University, May 6-8, 2016.
- Moduli Spaces, Integrable Systems and Topological Recursions, Center De Recherches Mathematiques, Jan. 8-14, 2016.
- Moduli Spaces of Curves and Maps, Stanford University, Feb. 14-15, 2015.
- Tsinghua Sanya International Mathematics Forum, Sanya, Dec. 15-19, 2014.
- Mathematical Aspects of Six-Dimensional Quantum Field Theories, University of California, Berkeley, Dec. 8-12, 2014.
- AMS Sectional Meeting, San Francisco State University, Oct. 25-26, 2014.
- Quantum curves, Hitchin systems, and the Eynard-Orantin theory, American Institute of Mathematics, Sep. 29-Oct. 3, 2014.
- JDG Conference on Geometry and Topology, Harvard University, Sep. 13-14, 2014.
- Conference on Homological Mirror Symmetry, University of Miami, Jan. 28- Feb. 1, 2013.
- FRG Workshop in Cambridge: Generalized Geometry, String Theory and Deformations, Harvard University, Aug. 25-27, 2012.
- Mirror Symmetry in the Midwest Conference, Kansas State University, Nov. 3-6, 2011.
- Mirror Symmetry and Tropical Geometry, Cetraro Italy, Jul. 2-8, 2011.
- RTG Graduate Summer School: Geometry of Quantum Fields and Strings, U. Penn., Jun. 8-20.
- Workshop in String Theory, General Relativity and Partial Differential Equations, Harvard University, May 25-29.
- Perspectives in Mathematics and Physics, MIT and Harvard University, May 22-24, 2009.
- International Conference on Mirror Symmetry and Gromov-Witten Theory, Seoul National University, Jan. 11-15, 2010.
- Workshop on Homological Mirror Symmetry and Related Topics, Miami University, Jan. 19-24, 2009.
- CMI workshop: Geometry and Physics of the Landau-Ginzburg Model, Clay Institute, Jan. 12-16, 2009.

- CBMS Conference on Tropical Geometry and Mirror Symmetry, Kansas State University, Dec. 13–17, 2008.
- Geometric Analysis: Present and Future, Harvard University, Aug. 27– Sep. 1, 2008.
- PCMI graduate summer school 2008, Park City, Jul. 6–26, 2008.
- Workshop on Mirror Symmetry and Symplectic Geometry, MIT, May 26–30, 2008.
- 2008 Clay Research Conference, Clay Institute, May 12–13, 2008.
- The Seventh conference on Geometry and Topology, Harvard University, May 2–4, 2008.
- CMI workshop: K3's: Modular Forms, Moduli, and String Theory, Clay institute, Mar. 20–23, 2008.
- Current Development in Mathematics, Harvard University, Nov. 16–17, 2007.