

# Yu-Shen Lin *Curriculum Vitae (March 2026)*

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Department of Mathematics & Statistics  
Boston University  
Room 507  
665 Commonwealth Avenue  
Boston, MA 02215

Email: [yslin@bu.edu](mailto:yslin@bu.edu)  
<http://math.bu.edu/people/yslin/>  
(617)353 8091

## 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

- Associate Professor, Boston University, 2025-present.
- Assistant Professor, Boston University, 2018-2025.
- 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.

## Student Supervised

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

## Publication and Preprints

- *A convergence result for Mean Curvature Flow of totally real submanifolds*, joint work with T. Collins and A. Jacob. *Math. Z.* 312 (2026), no. 3, Paper No. 89.
- *Recent Progress on SYZ Conjecture*, joint work with Tristan Collins, *Surveys in Diff. Geom.*, Vol XXVIII. In Honor of Professor Shing-Tung Yau on His 75th Birthday, 17-45, Int. Press, Somerville, MA.
- *The SYZ Mirror Symmetry Conjecture for Del Pezzo Surfaces and Rational Elliptic Surfaces*, joint work with Tristan Collins and Adam Jacob, *J. Differ. Geom.*, 132 (2026), no. 1, pp. 57-133.

- *From tropical curves to special Lagrangians*, joint work with S.-K. Chiu, preprint 2025, arXiv: 2509.04843.
- *Scattering diagrams from holomorphic discs in log Calabi-Yau surfaces*, joint work with Sam Bardwell-Evans, Man-Wai Cheung, Hansol Hong, J. Differ. Geom., 130 (2025), pp. 71-150.
- *SYZ mirror symmetry for del Pezzo surfaces and affine structures*, joint work with Siu-Cheong Lau and Tsung-Ju Lee, Adv. Math. 439 (2024), Paper No. 109488, 57 pp.
- *Some Examples of Family Floer Mirrors*, joint work with Man-Wai Cheung, Adv. Theor. Math. Phys. Vol. 28, No. 4 (2024), pp. 1081-1150.
- *Enumerative Geometry of Del Pezzo Surfaces*, Trans. Amer. Math. Soc. 377 (2024), no. 5, 3015–3054.
- *Special Lagrangian submanifolds in K3-fibered Calabi-Yau 3-folds*, joint work with S.-K. Chiu, preprint 2024, arXiv: 2410.17662.
- *Period Domains of Gravitational Instantons*, joint work with Tsung-Ju Lee, Trans. Amer. Math. Soc. **376** (2023), 5461-5501.
- *Collapsing of ALH-Gravitational Instantons*, joint work with Ryosuke Takahashi, preprint 2023, arXiv: 2305.16096. To appear in Commun. Anal. Geom.
- *The Torelli theorem for  $ALH^*$  gravitational instantons*, joint work with Tristan Collins and Adam Jacob, Math Forum, Sigma (2022), Vol. 10: e79 1–11.
- *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.
- *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.
- *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 (2021), no. 7, 1291–1375.
- *Correspondence Theorem Between Holomorphic Discs and Tropical Discs on K3 Surfaces*, J. Differ. Geom. Vol. 117, No. 1 (2021), pp. 41-92.
- *On the Tropical Discs Counting on Elliptic K3 Surfaces with General Singular Fibres*, Trans. Amer. Math. Soc. 373 (2020), 1385-1405.
- *On the Comparison of SG/AG Mirror Constructions*, joint work with Man-Wai Cheung, Proceeding of International Congress of Chinese Mathematicians 2020, 149–168.
- *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.
- *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.
- *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

- Simons Travel Grant, 2025-2030.
- Simons Fellow, 2025-2026.
- 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, 2013–2015.
- 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, Valley geometry seminar, University of Massachusetts Amherst, Mar 6, 2026.
- From Tropical Curves to Special Lagrangians, Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar, Columbia University, Feb 27, 2026.
- Tropical-Special Lagrangian Correspondence for Locally Planar Tropical Curves, 2025 Symposium on Complex Geometry, Kanazawa, Japan, Dec 1–4, 2025.
- $ALH^*$ -Gravitational Instantons and the Torelli Theorem, Algebraic Geometry Seminar, Kyoto University, Japan, Nov 25, 2025.
- Quadratic Differential and Special Lagrangians,  $\mathcal{D}$ -Modules Arising from Geometry, National Taiwan University, Nov 3, 2025.
- Quadratic Differential, Special Lagrangians and Mirror Symmetry, Algebraic Geometry in East Asia Conference, National Cheng-Kung University, Taiwan, Nov 10–14, 2025.
- On the Tropical/Special Lagrangian Correspondence, Geometry Seminar, Chinese University of Hong Kong, Oct 3, 2025.
- Step Zero toward the Donaldson-Scaduto Conjecture, Geometric Analysis Seminar, University of Miami, Aug 29, 2025.
- New Special Lagrangians in Calabi-Yau 3-Folds with Fibrations, Geometry & Topology Seminar, University of California Riverside, May 23, 2025.
- New Special Lagrangians in Calabi-Yau 3-Folds with Fibrations, Geometry & Topology Seminar, University of California Irvine, May 19, 2025.
- SYZ Mirror Symmetry of Log Calabi-Yau Surfaces, Algebraic Geometry Seminar, University of Illinois Chicago, Apr 28, 2025.
- Reconstruction of Special Lagrangians from the Adiabatic Limit, Differential geometry and symplectic topology seminar, University of Minnesota, Apr 3, 2025.
- $ALH^*$ -Gravitational Instantons, Geometry Topology Dynamical Systems Seminar, University of Texas Dallas, Mar 10, 2025.
- Special Lagrangians in Calabi-Yau 3-folds with a K3-fibration, MIST Geometry Lecture Series, Chinese University of Hong Kong, Jan 7–9, 2025.
- Special Lagrangians in Calabi-Yau -folds with a K3-fibration, Lisbon Geometry Webnar, Nov 12, 2024.

- Construction of Special Lagrangians in Collapsing Limits, Colloquium, Rutgers University, Newark, Oct 16, 2024.  
Special Lagrangian 3-Spheres near Adiabatic Limits, Pacific Rim Complex and Symplectic Geometry Conference, IBS Center for Complex Geometry, Daejeon, Korea, Jul 29– Aug 2, 2024.
- Special Lagrangians, Donaldson-Scaduto Conjecture and Mirror Symmetry, Geometry Cross Singularities, Taida Institute of Mathematical Sciences, Taiwan, Jul 18–20, 2024.
- $ALH^*$ -Gravitational Instantons, Several Complex Variables, Complex Geometry and related PDEs, Brin Mathematics Research Center, Maryland, May 13– May 17, 2024.
- New special Lagrangian 3-Spheres and the Donaldson-Scaduto Conjecture, Symplectic Geometry/gauge theory/low dimensional topology, Stony Brook University/SCGP, Apr 11, 2024.
- Step 0 toward the Donaldson-Scaduto Conjecture, Analysis-Geometry Seminar, Northeastern University, Mar 15, 2024.
- Step 0 toward the Donaldson-Scaduto Conjecture, Geometry & Topology Seminar, Toronto University, Mar 11, 2024.
- On the tropicalization of special Lagrangians in K3-fibered Calabi-Yau 3-folds, Geometry/Physics Seminar, Northwestern University, Feb 29, 2024.
- On the special Lagrangian spheres near adiabatic limits, Differential Geometry & Geometric Analysis Seminar, Princeton University, Feb 21, 2024.
- On the special Lagrangian spheres near adiabatic limits, Geometry and Topology Seminar, UMass Amherst, Feb 16, 2024.
- New Special Lagrangian Spheres in Calabi-Yau 3-Folds with K3-Fibrations, 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 Mathématiques, 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 HyperKahler Manifolds*, Geometry and String Theory Seminar, University of Texas at Austin, Mar. 26, 2014.
- *Reduced Open Gromov-Witten Invariants on HyperKahler 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 HyperKahler 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, GAUG.e 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 HyperKahler Metric.*, Geometry and Physics Seminar, Boston University, Sep. 19, 2012.

## Conference/Seminar Organization

- Boston Algebraic Geometry Day, (co-organized with Dawai Chen, Aaron Landesman, Yusuf Mustopa), Boston University, Apr 5, 2025.
- 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 Worskhop 2022, Geometry and Mathematical Physics, Boston University, Jun. 27–Jul. 1 (co-organized with Steve Rosenberg, Hiroyasu Izeki, Siu-Cheong 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-Cheong Lau).
- Boston University/Keio University/Tsinghua University Worskhop 2021, Geometry and Mathematical Physics, virtually at Boston University, Jun. 28–Jul. 2 (co-organized with Steve Rosenberg, Hiroyasu Izeki, Siu-Cheong Lau and Si Li).
- BU Geometry and Physics Seminar (co-organized with Siu-Cheong 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-Cheong 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-Cheong Lau). Postponed to summer 2021.

## Public Service

- NSF Panelist, 2023.
- US-Israel BSF review, 2025.
- 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, Journal of Topology, Acta Mathematica Scientia.
- Mass Regional V Science Fair judge 2022, 2023.
- Mathematical Applications in Practice (MAP) outreach in Oak Hill Middle School, 2024-present.

## 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 721 Differential Topology I, Fall 2024.
  - 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

- Pacific Rim Complex and Symplectic Geometry Conference, IBS Center for Complex Geometry, Daejeon, Korea, Jul 29– Aug 2, 2024.
- Geometry Cross Singularities, Taida Institute of Mathematical Sciences, Taiwan, Jul 18–20, 2024.
- Several Complex Variables, Complex Geometry and related PDEs, Brin Mathematics Research Center, Maryland, May 13– May 17, 2024.
- Geometric, Algebraic, and Physical structures around the moduli of Meromorphic Quadratic Differentials, Simons Center, May 13, 2024 – June 21, 2024
- 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.
- Structures in Enumerative Geometry, MSRI, Mar 19-23, 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.