Laura P. Schaposnik M. (October 20, 2022)

| PERSONAL INFORMATION | Department of Mathematics, University of Illinois, Chicago, IL 60607, USA | Born: 20 July, 1985 in La Plata, Argentir Email: lauraschaposnik@gmail.com https://schapos.people.uic.edu | ıa |
|-------------------------|--|---|------------------------|
| EMPLOYMENT | Professor, University of Illinois at Chic | ago, USA. | $since\ 2022$ |
| | Associate Professor, University of Illin | nois at Chicago, USA. | 2018-2022 |
| | Assistant Professor, University of Illin | nois at Chicago, USA. | 2015-2018 |
| | L.Doob. Research Assistant Prof., U | niversity of Illinois at Urbana-Champaign, Us | SA. 2013-2015 |
| | Wissenschaftlicher Assistent, Heidel | berg University, Heidelberg, Germany | 2012-2013 |
| | Stipendiary Lecturer in Mathemati | cs, Trinity & Magdalen College, Oxford, UK | . 2011-2012 |
| | Retained Lecturer in Mathematics, | Hertford College, Oxford, UK. | 2010-2011 |
| EDUCATION | University of Oxford. New College, C D.Phil. in Mathematics, Advisor: Prof. 1 | | 2008-2013 |
| | National University of La Plata. La Lic. en Matematica (MMath equiv.). Gr | Plata, Argentina. ade: 10/ 10. Advisor: Prof. Jorge Solomin. | 2004-2008 |
| | Conservatory Gilardo Gilardi. Musi | c Conservatory, La Plata, Argentina. | 2003-2007 |
| VISITING POSITIONS | 9. Visiting Fellow, All Souls College, | University of Oxford, UK. | Spring 2023 |
| | 8. Visiting professor, Mathematical In | stitute, University of Oxford, UK. | Spring 2023 |
| | 7. Research Professor, Mathematical | Sciences Research Institute, USA. | Fall 2022 |
| | 6. Research Member, Mathematical S | ciences Research Institute, USA. | Fall 2019 |
| | 5. Alexander von Humboldt fellow, Fr | reie Universität Berlin, Germany. | Summer 2019 |
| | 4. Visiting Associate Professor, Simon | ns Center for Geometry and Physics, USA. | Spring 2019 |
| | 3. Visiting Fellow, New College, Univ | ersity of Oxford, UK. | Fall 2018 |
| | 2. Visiting professor, Mathematical In | stitute, University of Oxford, UK. | Fall 2018 |
| | 1. Alexander von Humboldt Fellow, F | reie Universität Berlin, Germany. | Fall 2017 |
| SELECTED | 10. NSF FRG Award DMS 21521 | 07 (PI, w/ Mulase, Sawon, Dumitrescu). | 2022-2025 |
| Grants and fellowships | 9. RTG: Algebra, Geometry, and | Topology at UIC | 2021-2026 |
| SINCE 2015 | (Key Personnel, w/ (PI) Coskun et 8. <i>Simons Fellowship</i> . | s. al.) | 2022-2023 |
| | | drickson, Mazzeo, Mrowka, (PI) Walpuski). | 2022-2023 |
| | 6. NSF CAREER Award DMS 1 | | 2018-2023 |
| | 5. NSF Conference Award - "Ur | nity of Mathematics" (PI). | 2021 |
| | 4. NSF DMS 1929915 (PI, w/ L. | , | 2019 |
| | | and Physics Semester, (PI, w/ L. Anders | <i>'</i> |
| | 2. Alexander von Humboldt Fello 1. NSF DMS 1509693 and DMS | - ' ' ' | 2017-2019 2015-2019 |
| Memberships | 10. Fellow of UIC Honors College. | | since 2021 |
| | 9. Member of the American Mathen | natical Society (AMS). | $since\ 2017$ |
| | 8. Member of the Unión Matemática | | $since\ 2017$ |
| | 7. Faculty member of the GEAR N | | $since\ 2015$ |
| | - | T, Massachusetts Institute of Technology. | since 2014 |
| | 5. Member of the AWM Gweneth H4. Member of the Hitchin-Ngo Lab. | umphreys Award Selection Committee | 2022 - 2025 |

| _ | Member of the AWM Joan & Joseph Birman Prize Committee. Co-Chair of the AMS Joint Committee on Women in Maths. (JCW). Representative of the Association of Women in Mathematics (AWM) at JCW. | 2019-2023 2017-2018 2015-2018 |
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| SUPERVISION OF PHD STUDENTS | - , | pected 2024 nuary 2022 |
| PHD AND MASTER THESIS COMMITTEES | Fabiola Cordero, PUC-Rio, Brazil. Juan Sebastián Numpaque, Universidad de los Andes, Colombia. Keaton Quinn and Charles Alley, University of Illinois at Chicago, USA. Thesis reviewer, Roma Tre University, Italy | 2021 2021 2019-2020 2019 |
| SUPERVISION OF RESEARCH PROJECTS | Varun Mittal, Chicagoland High school student. Grace Wang, Supervised through MIT PRIMES-USA. Sheryl Hsu, Supervised through MIT PRIMES-USA (joining Stanford). Regeneron Science Scholar 2021; JMM MAA Undergraduate Poster Session present | 2022 2022 2021 ater. |
| | Vishaal Ram, Supervised through MIT PRIMES-USA (now at MIT). Regeneron Science Scholar 2020; 2020 ST. Yau High School Science Bronze Awar Yuyuan Luo, Supervised through MIT PRIMES-USA (now at MIT). JMM Outstanding Poster Presentation Award. | 2020 rd. 2019 |
| | Rinni Bhansali, Supervised through MIT PRIMES-USA (now at Stanford). Regeneron Scholar 2019JHSH National Finalist 2019; JMM MAA session speaker. Rachana Madhukara, Kevin Ren, Anlin Zhang (High School, California). Group National Finalist in the 2017 Siemens Competition. | 2018 2017 |
| | Anlin Shang, Supervised through MIT PRIMES-USA (now at <i>Princeton</i>). Kai-Siang Ang, Supervised through MIT PRIMES-USA (now at <i>Stanford</i>). Regeneron Science Talent Search Scholar 2017. | 2017 2016 |
| | Jessica Li, Supervised through IGL and MIT PRIMES-USA (now at <i>Harvard</i>). Semifinalist in the 2014 Siemens Competition and Intel Competition (among other C. Da, M. Zosky, J. Li, C. Formosa (Supervised through IGL). | |
| Awards and Grants | 25. NSF FRG Award DMS 2152107 (w/ Mulase, Sawon, Dumitrescu) (US\$ 1.4m). | |
| GRANTS $2014 - present$ $(\sim US\$ \ 3.2M)$ | 24. BIRS Conference grant, PI, w/ Anderson, Rayan and Schafer-Nameki. 23. BIRS Conference grant, co-PI, w/ Dumitrescu, Failde, Morales and PI Mulase 22. IHP: Research in Pairs (with Steven Rayan and Emanuele Macri) | 2023 e. 2023 2023 |
| | 21. Simons Fellowship (PI) (US\$ 100k). 20. NSF CAREER Award DMS 1749013: (PI) (US\$ 400k). | 2022-2023 2018-2023 |
| | UIC Start-up Package (US\$ 365k). UIC Visitor's fund award (To host 7 visitors), (US\$10k). NSF DMS 1929915 (PI, L. Anderson Co-PI) (US\$ 9k). | 2015-2023 2018-2020 2019 |
| | 16. Simons Center for Geometry and Physics (~US\$ 300k), 15. SCGP, Conference Grants (PI w/ L. Anderson, US\$ 35k ×2). | 2019 2019 |
| | Oberwolfach Conference grant (PI, w/ Anderon, Hausel and Mazzeo) Alexander von Humboldt Fellowship (US\$ 40k) NSF Research grant DMS 1509693 and DMS 1611835 (PI) (US\$ 144k) | 2019 2017-2019 2015-2019 |
| | UIC Research Award, through UFRP program (US\$ 30k). Conference grant via NSF RTG grant DMS-1246844 (PI: L. Ein). (US\$ 45k) | 2015-2018 2016-2018 |

| TE G: E II: I I : 'I G I : "ITTOD" | 2012 2012 |
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| 2. Public Engagement Grant, UIUC w./ Delcourt (PI) & Kedem. | 2014-2015 |
| 3. AMS Simons Travel Grant (US\$ 4k) | 2014-2015 |
| 4. IHP trimester participant support $(\times 2),$ Institut Henri Poincaré (US\$ 4k) | 2012-2016 |
| 5. Simons Center for Geometry and Physics (PI), Conference Grant (US\$ 3 | 30k). 2016 |
| 6. Long & Short visit grants via GEAR Network (US\$ 30k), | 2014-2017 |
| 7. American Institute of Mathematics (PI), Conference Grant (US\$ 35k x2) | . 2015-2017 |
| 8. NSF Conference grants through GEAR Network (PI), (US\$ 90k). | 2015-2017 |
| 9. UIUC Math Department Conference grant (US\$ 5k). | 2017 |
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SELECTED UNDERGRADUATE & GRADUATE PRIZES, AWARDS, AND GRANTS 2006-2013

INTERNATIONAL MEETINGS ORGANIZED AMS Simons Travel Grant (US\$ 4k)
 Public Engagement Grant, UIUC w./ Delcourt (PI) & Kedem.
 European Science Foundation short visit Grant via "ITGP".
 QGM 6 months research grant, QGM, Aarhus and Oxford.
 Clarendon Award and New College Scholarship.
 National Government and Santander Bank and Joaquín V González Prize.
 Argentinian Mathematical Olympiads, 3rd place, w/R. Lafuente (×2)
 2014-2015
 European Science Foundation short visit Grant via "ITGP".
 2012-2013
 2012-2013
 Actional Grant New College Scholarship.
 2008-2011
 Argentinian Mathematical Olympiads, 3rd place, w/R. Lafuente (×2)

- 38. **Co-Organizer**, with Mulase, Dumitrescu, Cruz Morales & Garcia Failde Fall 2023 BANFF: "Complex Lagrangians, Mirror Symmetry, and Quantization" BANFF, Canada.
- 37. **Co-Organizer**, with Anderson, Rayan and Schafer-Nameki Spring 2023 BIRS: "The Geometry, Algebra, and Physics of Higgs Bundles" BIRS-Okanagan, Canada.
- 36. **Co-Organizer**, with Fredrickson, Mazzeo, Mrowka and Walposki Fall 2022 MSRI: "Analytic and geometric aspects of gauge theory", 1-semester program. MSRI, USA.
- 35. Co-Organizer, with Lara Anderson.

 MSRI: "Connections for Women Woorkshop", MSRI, USA
- 34. Co-Organizer, with Brian Collier
 UIC: "Geometric structures (re)United", UIC, USA.

 June 2022
- 33. Co-Organizer, international conference in Sir Michael Atiyah's memory September 2021 Newton Institute: "Unity of Mathematics", Newton Institute, Cambridge, UK
- 32. Co-Organizer, w/ James Unwin. Second in a series of workshops "SIDE Math". June 2021 UIC: "Selected Interdisciplinary Directions of Entertaining Mathematics 2021", UIC, USA.
- 31. Co-Organizer, w/ James Unwin. First in a series of workshops "SIDE Math". June 2020 UIC: "Selected Interdisciplinary Directions of Entertaining Mathematics 2020", UIC, USA.
- 30. Co-Organizer, w/ Athreya, Bradlow, Gukov, Neitzke, Zorich, Weitze-S. November 2019 MSRI: "Holomorphic Differentials in Mathematics and Physics", MSRI, USA.
- 29. **Co-Organizer**, with A. Mandini, M. Verbitsky, and A. Zorich. June 2019 IMPA: "Teichmüller Theory, Hyperbolicity and Dynamics", IMPA, Brazil.
- 28. Co-Organizer (chair), with L. Anderson, T. Hausel, and R. Mazzeo. May 2019 Oberwolfach: "Geometry and Physics of Higgs bundles", Oberwolfach (MFO), Germany.
- 27. **Co-Organizer** with L. Anderson, 1-semester program. Spring 2019 SCGP: "Geometry and Physics of Hitchin Systems", SCGP, USA.
- 26. **Co-Organizer (chair)** with L. Anderson. Fifth in a series of workshops. May 2019 SCGP: "Current trends in spectral data for Higgs bundle V", SCGP, USA.
- 25. Co-Organizer (chair) with L. Anderson, R. Mazzeo, and T. Pantev. March 2019 SCGP: "Challenges at the Interface of Hitchin Systems and String Theory", SCGP, USA.
- 24. Co-Organizer (chair), with R. Arroyo, B. Davison, M. Logares, M. Mereb. December 2018 UBA: "Current Trends on Hitchin Systems", UBA, Argentina.
- 23. **Organizer**, Fourth of a series of Two-day workshops. November 2018 Oxford: "Current trends in spectral data for Higgs bundle IV", Oxford, UK.
- 22. **Organizer**, Third of a series of Two-day workshops. November 2017 UIC: "Current trends in spectral data for Higgs bundle III", UIC, USA.

August 2022

- 21. Co-Organizer (chair), with L.B. Anderson, J.M. Esole and L. Fredrickson October 2017 AIM: "Singular Geometry and Higgs Bundles in String Theory", AIM Workshop.
- 20. **Co-Organizer** with Florent Schaffhauser and Richard Wentworth July 2017 MCA: "Geometry and Physics of Higgs bundles". Special Session, MCA2017, Canada.
- 19. Co-Organizer (chair), with B. Collier and G. Daskalopoulos May 2017 Allerton: "Geometry and Physics of Augmented Bundles". Allerton, Illinois, USA.
- 18. **Co-Organizer**, with D. Dumas, A. Furman, D. Groves, and K. Whyte February 2017 UIC: "Chicago Action Now II", UIC, USA.
- 17. **Co-Organizer** with Bernardo Uribe et. al. July 2016 CLAM: "Fifth Latin American Congress of Mathematics", Barranquilla, Colombia.
- 16. **Co-Organizer** with Florent Schaffhauser and Richard Wentworth. July 2016 CLAM: "Higgs bundles and real character varieties", Special Session, CLAM V, Colombia.
- 15. Co-Organizer (chair), with L. B. Anderson, D. Baraglia and V. Shende June 2016 SCGP: "New perspectives on Higgs bundles, branes and quantization", SCGP, USA.
- 14. Co-Organizer (chair), with Lara B. Anderson

 SCGP: "Current trends on spectral data for Higgs bundle II", SCGP, USA.

 June 2016
- 13. Co-Organizer (chair), with J. Andersen, D. Baraglia, P. Boalch
 AIM: "Spectral data for Higgs bundles", AIM Workshop.
- 12. **Organizer**, Weekend workshop. October 2015 AIM: "Current trends on spectral data for Higgs bundles I", AIM, USA.

11. **Co-Organizer**. UIC, USA. with Ross, Sinapova, Perkins, et. al. October 2021 UIC: "GROW 2021: Graduate Research Opportunities for Women".

- 10. **Co-Organizer**. UChicago, USA. with Corlette, Masur, May, Calegari, et. al. October 2020 UChicago: "GROW 2020: Graduate Research Opportunities for Women".
- 9. Co-Organizer (chair) with L. Anderson, S. Katz and J. Teschner. May 2019 SCGP: "Graduate Summer School on Hitchin systems", SCGP, USA.
- 8. Co-Organizer (chair) with L. Anderson; Series of Two-day workshops. March 2019 SCGP: "Workshop on the geometry and physics of Higgs bundles IV'. SCGP, USA.
- 7. **Co-Organizer**, with Steve Rayan. Prince Albert National Park, Canada. August 2018 PANP: "Geometry and Physics of Gauge Theories".
- 6. Organizer, Graduate students' workshop. UIC, USA.

 UIC: "RTG Workshop on the geometry and physics of Higgs bundles III".

 June 2018
- 5. **Organizer**, Graduate students' workshop. UIC, USA. Nov. 2017 UIC: "RTG Workshop on the geometry and physics of Higgs bundles II".
- 4. **Organizer**, One day graduate workshop for students of UIC, USA. May 2017 UIC: "Graduate day on Geometry and Topology II".
- 3. **Organizer**, One day graduate workshop for students of UIC, USA. November 2016 UIC: "Graduate day on Geometry and Topology' I'.
- 2. **Organizer**, Graduate students' workshop. UIC, USA. October 2016 UIC: "RTG Workshop on the geometry and physics of Higgs bundles I"
- 1. **Co-Organizer** (with Andy Sanders, Michelle Lee and Sara Maloni), May 2014 GEAR: GEAR Junior Retreat (10 days 150 participants, US\$ 300 k budget).

Mini-Courses

Meetings

ORGANIZED

STUDENTS
AND POST-DOCS

FOR GRADUATE

- 10. Universidad Nacional de La Plata, La Plata, Argentina.

 November 2022
 3 Hrs Lectures on knot theory.
 - 9. Undergraduate geometry & topology workshop, Notre Dame, USA.

 August 2022
 3 Hrs Lectures on knot theory.
 - 8. IAS/Park City Mathematics Institute (PCMI) 2019 Program, Park City, USA. August 2019 4 Hrs Lectures on Gauge theories intended for ~ 150 participants.

| 7. Junior GEAR Retreat 2017, Stanford University, USA. 3 Hrs - Lectures on Higgs bundles intended for ~ 100 participants. 6. Summer program for undergraduate women, UBC, Vancouver, Canada. 16 Hrs - Lectures on Knot theory intended for undergraduate students. 5. School on Higgs bundles, ICTS, Bangalore, India. 4 Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4 Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4 Pohang Mathematics Institute, Pohang, Korea. 5 Summer School on the moduli space of Higgs bundles, NUS, Singapore. 6 Higgs bundles, USA. 7 Hrs - Lectures on Higgs bundles. 7 University of California at Davis, California, USA. 7 Faculté des Sciences d'Orsay, Université Paris-Sud, France 9 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1 Faculté des Sciences d'Orsay, Université Paris-Sud, France 9 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 27 All Souls College evening series, Oxford, UK. 8 September 2022 8 Heilbronn Annual Meeting*, Bristol, UK. 8 September 2022 9 Yes at UIC*, Chicago, USA. 9 June 2021 9 Chiconal Matemática Argentina*, Annual meeting, Argentina (online). 9 Stony Brook University, Stony Brook, USA. 1 Recommerican Congress on Geometry *, Valladolid, Spain. 1 March 2015 1 University of Washington, Seattle, USA. 1 University of Washington, Seattle, USA. 1 University of Notre Dame, South Bend, USA. 1 University of Illinois at Chicago, Chicago, USA. 1 University of Illinois at Chicago, Chicago, USA. 1 University of North Carolina at Chapel Hill, USA. 1 University of Seate and | | | | |
|--|-----|---|-----------|------|
| 6. Summer program for undergraduate women, UBC, Vancouver, Canada. 16 Hrs - Lectures on Knot theory intended for undergraduate students. 5 School on Higgs bundles, ICTS, Bangalore, India. 4 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4 Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 5 Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 2 University of California at Davis, California, USA. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1 Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1 Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 27. All Souls College evening series, Oxford, UK. 28. Heilbronn Annual Meeting*, Bristol, UK. 29. YSP at UIC*, Chicago, USA. 20. Kibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 21. University of Illinois at Chicago, USA. 22. Unión Matemática Argentina*, Annual meeting, Argentina (online). 23. Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 24. Real Sociedad Matemática Campus, USA. 25. Stony Brook University, Stony Brook, USA. 26. Heilbronn Annual Meeting*, Annual meeting, Argentina (online). 27. March 2021 28. Simons Center for Geometry and Physics, Stony Brook, USA. 29. Rutgers University, Stony Brook, USA. 3 Huniversity of Utah, Salt Lake City, USA. 4 January 2018 4 January 2018 5 University of Notre Dame, South Bend, USA. 5 University of Washington, Seattle, USA. 5 University of Notre Dame, South Bend, USA. 6 University of Illinois at Chicago, Chicago, USA. 7 † Colorado State niversity, Denver, USA. 6 University of North Carolina at Chapel Hill, USA. 6 University of North Carolina at Chapel Hill, USA. | 7. | Junior GEAR Retreat 2017, Stanford University, USA. | August | 2017 |
| 16 Hrs - Lectures on Knot theory intended for undergraduate students. 5. School on Higgs bundles, ICTS, Bangalore, India. 4 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4. Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 5. Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 2. University of California at Davis, California, USA. 3 January 2013 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 27. All Souls College evening series, Oxford, UK. 28. Heilbronn Annual Meeting*, Bristol, UK. 29. September 2022 20. Heilbronn Annual Meeting*, Bristol, UK. 20. Heilbronn Annual Meeting*, Bristol, UK. 20. Way 2021 21. Unión Matemática Argentina*, Annual meeting, Argentina (online). 22. Unión Matemática Argentina*, Annual meeting, Argentina (online). 29. Rutgers University - Newark Campus, USA. 20. Rutgers University, Stony Brook, USA. 21. Beroamerican Congress on Geometry *, Valladolid, Spain. 3 January 2018 3 January 2018 3 January 2018 4 University of Washington, Seattle, USA. 4 University of Washington, Seattle, USA. 4 University of Notre Dame, South Bend, USA. 5 University of Notre Dame, South Bend, USA. 5 University of Notre Dame, South Bend, USA. 6 University of Illinois at Chicago, Chicago, USA. 8 January 2018 8 University of Illinois at Chicago, Chicago, USA. 6 University of Illinois at Chicago, Chicago, USA. 6 University of Illinois at Chicago, Chicago, USA. 6 University of North Carolina at Chapel Hill, USA. 4 January 2018 5 University of North Carolina at Chapel Hill, USA. | | | | |
| 5. School on Higgs bundles, ICTS, Bangalore, India. 4 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4. Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 3. Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 4. University of California at Davis, California, USA. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 201 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 202 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 202 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 202 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 202 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 4. April 202 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 5. April 202 2 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 5. April 202 5. YSP at UIC *, Chicago, USA. 5. University of UIAA, Santania, Spain (Online). 5. September 2022 6. Heilbronn Annual Meeting *, Spain (Online). 6. Viniversity of Illinois at Chicago, USA. 6. University of Washington, Seattle, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. 6. University of North Carolina at Chapel Hill, USA. | 6. | | August | 2016 |
| 4 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 4. Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 3. Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 2. University of California at Davis, California, USA. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 27. All Souls College evening series, Oxford, UK. 28. Heilbronn Annual Meeting*, Bristol, UK. 29. September 2022 20. Heilbronn Annual Meeting*, Bristol, UK. 20. Heilbronn Annual Meeting*, Spain (Online). 3. Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 4. April 2021 22. Unión Matemática Argentina*, Annual meeting, Argentina (online). 23. Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 24. Real Sociedad Matemática Española*, Spain (Online). 25. YSP at UIC*, Chicago, USA. 26. Heilbronn Annual Meeting*, Annual meeting, Argentina (online). 27. All Souls College University of Illinois at Chicago, USA. 28. March 2020 29. Rutgers University - Newark Campus, USA. 39. March 2020 30. Rutgers University, Stony Brook, USA. 40. Pebruary 2016 41. University of Utah, Salt Lake City, USA. 42. University of Washington, Seattle, USA. 43. University of Washington, Seattle, USA. 44. University of Notre Dame, South Bend, USA. 45. University of Notre Dame, South Bend, USA. 46. University of Illinois at Chicago, Chicago, USA. 47. † Colorado State niversity, Denver, USA. 48. University of North Carolina at Chapel Hill, USA. 49. String-Maths 2016*, Collège de France, Paris, France. 49. January 2016 40. University of North Carolina at Chapel Hill, USA. | 5 | | March | 2016 |
| 4. Pohang Mathematics Institute, Pohang, Korea. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 3. Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 2. University of California at Davis, California, USA. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for graduate and graduate students. 27. All Souls Collège evening series, Oxford, UK. 28. Heilbronn Annual Meeting *, Bristol, UK. 29. YSP at UIC *, Chicago, USA. 3 Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 3 Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 4 Real Sociedad Matemática Española *, Spain (Online). 5 September 2022 2 Unión Matemática Argentina *, Annual meeting, Argentina (online). 5 September 2022 2 Unión Matemática Argentina *, Annual meeting, Argentina (online). 6 September 2022 2 University of Illinois at Chicago, USA. 6 March 2021 2 Stony Brook University, Stony Brook, USA. 7 Beroamerican Congress on Geometry *, Valladolid, Spain. 8 Simons Center for Geometry and Physics, Stony Brook, USA. 9 January 2018 1 University of Washington, Seattle, USA. 1 University of Washington, Seattle, USA. 1 University of Notre Dame, South Bend, USA. 1 University of Notre Dame, South Bend, USA. 1 Universidad Nacional de La Plata, Argentina. 1 Universidad Nacional de La Plata, Argentina. 1 Indiana University-Purdue University Indianapolis, USA. 1 University of Illinois at Chicago, Chicago, USA. 3 University of North Carolina at Chapel Hill, USA. 4 University of North Carolina at Chapel Hill, USA. 5 January 2018 6 University of North Carolina at Chapel Hill, USA. 5 January 2018 | 0. | | | 2010 |
| 3. Summer School on the moduli space of Higgs bundles, NUS, Singapore. 2 Hrs - Lectures on Higgs bundles. 2. University of California at Davis, California, USA. 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty. 1. Faculté des Sciences d'Orsay, Université Paris-Sud, France 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students. 27. All Souls College evening series, Oxford, UK. 28. Heilbronn Annual Meeting *, Bristol, UK. 29. YSP at UIC *, Chicago, USA. 29. Lead Sociedad Matemática Española *, Spain (Online). 20. Cibercoloquio Latinoamericano de Matemáticas, Brazil (Online). 20. Unión Matemática Argentina *, Annual meeting, Argentina (online). 20. Rutgers University of Illinois at Chicago, USA. 20. Rutgers University - Newark Campus, USA. 31. Simons Center for Geometry and Physics, Stony Brook, USA. 41. Simons Center for Geometry and Physics, Stony Brook, USA. 42. University of Utah, Salt Lake City, USA. 43. University of Washington, Seattle, USA. 44. University of Washington, Seattle, USA. 45. University of Washington, Seattle, USA. 46. University of Notre Dame, South Bend, USA. 47. Universidad Nacional de La Plata, Argentina. 48. University of Illinois at Chicago, USA. 49. String-Maths 2016 *, Collège de France, Paris, France. 40. University of North Carolina at Chapel Hill, USA. 40. University of North Carolina at Chapel Hill, USA. 41. University of North Carolina at Chapel Hill, USA. 42. University of North Carolina at Chapel Hill, USA. 43. University of North Carolina at Chapel Hill, USA. 44. University of North Carolina at Chapel Hill, USA. 45. University of North Carolina at Chapel Hill, USA. 46. University of North Carolina at Chapel Hill, USA. 47. January 2018 48. University of North Carolina at Chapel Hill, USA. 49. January 2018 49. January 2018 40. January 2018 4 | 4. | | | 2014 |
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| 3. Purdue University, West Lafayette, USA. December 2014 | 3. | Purdue University, West Lafayette, USA. | December | 2014 |
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1. Boston College, Boston, USA.

 $0.\ Pohang\ Mathematics\ Institute,\ Pohang,\ Korea.$

Colloquia and Plenary talks (*)

November 2014

November 2014

CONFERENCE AND WORKSHOP TALKS: LIST SINCE 2012 (5 BEFORE THAT)

| 53. | Quantization of Complex Symplectic Varieties, Oberwolfach, Germany. | October | 2022 |
|-----|--|------------|------|
| 52. | Analytic and Geometric Aspects of Gauge Theory, MSRI, USA. | August | 2022 |
| 51. | Latin American and Caribbean Workshop on Mathematics and Gender, BIRS | S. May | 2022 |
| 50. | Mirror symmetry in Latin America, (Online). | July | 2021 |
| 49. | OLGA 2021 - Oxford-London Gauge Assembly, (Online) Oxford, UK. | June | 2021 |
| 48. | Women at the intersection of math and theoretical physics, (Online) Canada. | Feb. | 2021 |
| 47. | XII Festival de Matemática, (online) Argentina. | September | 2020 |
| 46. | Qolloquium: Quivers, Representations, Resolutions, (online) Canada. | June | 2020 |
| 45. | Higgs bundles & related topics, (online) Toronto, Canada. | May | 2020 |
| 44. | Connections for Women: Holomorphic Differentials, MSRI, USA. | August | 2019 |
| 43. | 2019 Workshop by Moira Chas, Stony Brook, USA. | June | 2019 |
| 42. | Holomorphic Differentials in Mathematics and Physics, SCGP, USA. | February | 2019 |
| 41. | RTG Workshop on the Geometry and Physics of Higgs bundles III, UIC, USA | A. June | 2018 |
| 40. | Southeastern regional mathematical string theory meeting, Duke University, U | JSA. April | 2018 |
| 39. | The Analysis of Gauge-Theoretic Moduli Spaces, Banff, Canada. | August | 2017 |
| 38. | Harmonic Maps, Higgs Bundles and Integrable Systems, Hannover, Germany. | August | 2017 |
| 37. | GEOQUANT Conference, Jutland, Denmark. | August | 2017 |
| 36. | Topological and Algebraic Advances in QFT, Varese, Italy. | August | 2017 |
| 35. | Gauge theory and special geometry (Special Session, MCA 2017), Canada. | July | 2017 |
| 34. | Workshop on Moduli theory and Derived category, Seoul, South Korea. | June | 2017 |
| 33. | Higgs bundles and related topics, Nice, France. | May | 2017 |
| 32. | Mirror Symmetry Conference for Young Mathematicians, Ann Arbor, USA. | May | 2017 |
| 31. | British Isles Graduate Workshop Higgs bundles, Isle of Wight, UK. | April | 2017 |
| | BUNDLES, TIFR, Mumbai, India. | March | 2017 |
| 29. | School on Geometry and Physics, Bangalore, India. | March | 2017 |
| 28. | Fifth Annual Midwest Women in Math. Symp. (WIMS), Indianapolis, USA. | February | 2017 |
| 27. | Encuentro Rioplatense de Álgebra y Geometría, La Plata, Argentina. | December | 2016 |
| 26. | Workshop on the Geometry and Physics of Higgs bundles I, Chicago, USA. | October | 2016 |
| | Hitchin 70's birthday conference, Madrid, Spain. | September | 2016 |
| 24. | New Perspectives on Moduli Spaces in Gauge Theory, NUS, Singapore. | August | 2016 |
| 23. | Rep. Theory, Integrable Systems and QFT, Northwestern University, USA. | April | |
| 22. | Higgs Bundles in Geometry and Physics, University of Heidelberg, Germany. | February | 2016 |
| | Higgs bundles and Hitchin system, Centre Bernoulli, Switzerland. | January | |
| | Workshop on Holomorphic differentials, Cape Town, South Africa. | January | |
| 19. | 50 years of the Narasimhan–Seshadri Theorem, Chennai, India. | October | |
| | Spectral data for Higgs bundles, AIM, San Jose, USA. | August | |
| | String Mathematics workshop, Harvard University, USA. | August | 2015 |
| | Differentialgeometrie im Großen, Oberwolfach, Germany. | | 2015 |
| | 2015 Joint International Meeting with the AMS, Porto, Portugal. | June | |
| | Langlands workshop, UIUC, USA. | November | |
| 13. | Geometric structures and representation varieties, SNU Seoul, Korea. | November | |
| | Modern trends in Gromov-Witten theory, Hannover, Germany. | September | |
| 11. | Workshop on the moduli space of Higgs bundles, NUS, Singapore. | July | |
| 10. | | June | |
| | Character Varieties & Geometric Structures, Howard University, USA. | December | |
| 8. | 9th International ISAAC Congress, Krakow, Poland. | August | |
| 7. | Topology of moduli spaces of representations, Miraflores, Spain. | March | |
| 6. | Workshop on Geometry of Surface Group Representations, CRM, Spain. | May | 2012 |

Seminars SINCE 2015(22 BEFORE THEN)

| 60. | King's College London's Geometry Seminar, London, UK | May | 2023 |
|-----|--|-------------|------|
| 59. | De La Plata por el Mundo, (Online) La Plata, Argentina | March | 2022 |
| 58. | ZAG seminar, (Online). | December | 2021 |
| 57. | Geometric analysis seminar, (Online) Rutgers, USA. | October | 2021 |
| 56. | Mathematical Physics seminar, (Online) Perimeter Institute, Canada. | October | 2021 |
| 55. | Geometry Seminar, (Online) Lisbon, Portugal. | April | 2021 |
| 54. | LAGOON: Leicester Algebra and Geometry Open ONline Seminar, (Online) | UK. July | 2020 |
| 53. | Algebraic geometry seminar, Stony Brook University, USA. | May | 2019 |
| 52. | Geometry and Physics, Rutgers New Brunswick, USA. | April | 2019 |
| 51. | Algebraic geometry seminar, Imperial College, UK. | November | 2018 |
| 50. | Algebraic geometry seminar, University of Oxford, UK. | November | 2018 |
| 49. | String Theory Seminar, University of Oxford, UK. | October | 2018 |
| 48. | Mathematical seminar/interview, University of Oxford, UK. | May | 2018 |
| 47. | $S\'{e}minaire\ de\ G\'{e}om\'{e}trie\ et\ Quantification,\ Institut\ Henri\ Poincar\'{e},\ France.$ | May | 2018 |
| 46. | ${\it Geometry\ seminar},\ {\it University\ College\ London/King's\ College\ London},\ {\it UK}.$ | April | 2018 |
| 45. | $DAMPT\ \&\ DPMMS\ seminar/interview,$ University of Cambridge, UK | March | 2018 |
| 44. | Max Dehn Seminar, University of Utah, USA | January | 2018 |
| 43. | GEAR seminar, University of Illinois at Urbana Champaign, USA. | November | 2017 |
| 42. | Felix Klein seminar, University of Notre Dame, USA. | November | 2017 |
| 41. | (×2) Geometry Seminar, ITS, Vienna, Austria. | October | 2017 |
| 40. | Mathematical Physics Seminar, University of Heidelberg, Germany. | October | 2017 |
| 39. | Higher Differential Geometry seminar, MPI, Bonn, Germany. | Oct. | 2017 |
| 38. | Algebraic Geometry Seminar, FU Berlin, Germany. | July | 2017 |
| 37. | Mathematical Physics Seminar, IPMU, Japan. | June | 2017 |
| 36. | Topology Seminar, Northwestern University, USA. | May | 2017 |
| 35. | Mathematical Physics Seminar, IMPA, Rio de Janeiro, Brazil. | February | 2017 |
| 34. | Geometric Analysis Seminar, University of Chicago, USA. | January | 2017 |
| 33. | Mathematical Physics Seminar, Perdue University, West Lafayette, USA. | January | 2017 |
| 32. | Algebraic Geometry Seminar, University of Chicago, USA. | January | 2017 |
| 31. | Geometry and Physics Seminar ($\times 2$), Northwestern University, | Spring | 2017 |
| 30. | Algebraic Geometry Seminar, U. of Buenos Aires, Argentina. June | e 2012, May | 2016 |
| 29. | Geometry Seminar, University of Texas at Austin, USA. | April | 2016 |
| 28. | Geometry and Analysis Seminar, University of Oxford, UK. | January | 2016 |
| 27. | (×2) Geometry seminar, EPFL, Lausanne, Switzerland. | June | 2015 |
| 26. | $Geometry,\ Topology\ and\ Analysis\ seminar,\ University\ of\ Sydney,\ Australia.$ | May | 2015 |
| 25. | Differential Geometry Seminar, Harvard University, USA. | March | 2015 |
| 24. | Geometry Seminar, UNC at Chapel Hill, USA. | January | 2015 |
| 23. | Geometry Seminar, University of Minnesota, Minneapolis, USA. | January | 2015 |
| 7. | Mathematical Institute, University of Oxford, UK. (3 +6 months) | 2018, | 2023 |
| | Mathematical Sciences Research Institute (MSRI), Berkeley, USA $(6+6 \text{ mor})$ | | |
| | IHP, Paris, France (1+1+1 (Research in pairs) months) | 2012,2016, | |
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SELECTED RESEARCH VISITS

| | Freie Universität Berlin, Germany. (2 +5 months) Simons Center for Geometry and Physics, Stony Brook, USA. (5 months) IMPA, Rio de Janeiro, Brazil. (4.5 months) | 2017, 2019 2019 2008, 2017 |
|------------------------------|--|----------------------------------|
| | 1. National University of Singapore, Singapore. (2.5 months) 2013, | 2014, 2016 |
| Editorial Boards | • Editorial Board Member, Geometriae Dedicata. | $since\ 2019$ |
| Болирь | • Guest Editor. SIGMA special issue "Geometry and Physics of Hitchin systems" | |
| | • Editorial Board. New Collection, University of Oxford, ISSN: 1757-2541. | 2010-2011 |
| University and Department | • Senator of the <i>UIC Senate</i> and Fellow of the <i>Honors college</i> . | $since\ 2020$ |
| SERVICE AT UIC | • Co-Organiser, Geometry, Topology and Dynamics seminar. | since 2016 |
| | • Research Assistant Professor Search Committee (× 5). | 2015-2020 |
| | | -2019, 2021 |
| | • Salary (\times 1); Visitor (\times 2); Faculty Search (\times 1); Mathematics Club (\times 1). | 2017-2018 |
| OTHER Professional | • Alexander von Humboldt Foundation, external reviewer. | $since\ 2020$ |
| SERVICE ACTIVITIES | • National Science Centre, Poland, proposal reviewer. | 2020 |
| | • Behavioural Science Referee: J. of Med.Int.Res.; Open Psy.J.; | $since\ 2020$ |
| | • NSF Reviewer (× 5). 2016, 2017, 2019, | 2021, 2022 |
| | • WMC SheSource Expert, for Women's Media Center (WMC). | $since\ 2017$ |
| | • Co-Organizer of Research seminars, University of Heidelberg, Germany. | 2012-2013 |
| | • MathSciNet Reviewer (accept duties ~ 2 times per year). | $since\ 2014$ |
| | • Admissions Interviewer. Magdalen and St Peter's Colleges, Oxford. | 2009-2011 |
| | • Mathematics Journal Referee (accept duties ~ 5 times per year). | since 2012 |
| | Duke; & Israel J. Math; Adv. Geo.; & J. Top.; Diff. Geom. and Commun. Math. Phys.; Pac. J. Math. & Geo. Ded.; SIGMA & Q. J. Int. J. Math. & PRE; Revista Mat. Comp.; Annals of he El PRIMS & Int. Math. R. Not.; J. Pure Appl. Algebra; J. LMS and J. Comp.; | . Math; NS; |
| University | University Instructor, University of Illinois at Chicago, USA | |
| LARGE CLASS | • Math 300: Writing for Mathematics. (×14) Spring 2020, 2022 & Fall | 2020, 2021 |
| TEACHING | • Math 215: Introduction to advanced mathematics. (×4) Fall 2015, 2016 & | Spring 2018 |
| | • Math 596: Independent study. (×6) (graduate course) Fall 2015, 2016, 2017 & | Spring 2017 |
| | • Math 547: Algebraic Topology I. (×1) (graduate course) | Fall 2016 |
| | • Math 549: Differentiable Manifolds I. (×2) (graduate course) Fall 2015 & S | Spring 2017 |
| | University Instructor, University of Illinois at Urbana-Champaign, USA | |
| | \bullet Fundamental Mathematics. Math 348 (×4) and Math 347 (×2) | 2013-2015 |
| UNIVERSITY 2 TO 1 | College lectureship, University of Oxford, UK. • 3D Calculus; Calculus of Variations; Linear Algebra I,II; Groups, Rings and Field | 2010-2012 ds. |
| TEACHING TEACHING | Class Tutor, Mathematical Institute, Oxford, UK. | 2010 |
| Assistantships | • B9. Algebraic Number Theory (& Revision Classes). Teaching Assistant, Mathematical Institute, University of Oxford. | 2009-2010 |
| | B9. Algebraic Number Theory; B3. Geometry of Surfaces; C9.1 Elliptic Curves. Teaching Assistant, National University of La Plata, Argentina. Analysis (Mathematics dept.); Probabilities and Statistics (Engineering dept.). | 2006-2008 |

INTERNATIONAL PROGRAMS & HIGH SCHOOL TEACHING

OUTREACH ACTIVITIES

| • Speaker: It All Adds Up, University of Oxford, UK. | January 2023 |
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| | v |
| • Speaker: Undergraduate summer workshop, (career talk) Notre Dame, USA. | August 2022 |
| • Panelist: NSF REU Women in Science and Technology panel, DePaul U., US | A. July 2022 |
| • Speaker: Harvard-MIT Math Tournament, (career talk) HMMT, USA. | November 2021 |
| • Reader: Guidepost Montessori, Nido & Toddler room Book reading. Jul | ly & June 2021 |
| • Speaker: UIC AWM Chapter, Stanford Math Organization, New College Oxfo | ord 2021 |
| • Speaker: Stanford Women in Math Mentoring, UChicago Women in STEM of | elub 2021 |
| • Co-Organizer (w. James Unwin): SIDE MATH 2020 | 2020 |
| • Co-Organizer (w. James Unwin): 1 st , 2 nd , 3 rd , 4 th , 5 th Sonia day at UIC, | 2015-2019 |
| • Connections for Women Panelist, MSRI, Berkeley, USA. | 2019 |
| • Volunteer: Sonia Maths day for Girls and UIUC GEMS program | 2013-2015 |
| • Co-Organizer (with Jayadev Athreya et al.) MoSAIC Festival, UIUC. | 2014 |
| • Panel speaker: Graduate College Career Development, UIUC, USA | 2014 |
| • Teacher: Urbana High School & Garden Hills Elementary School. | 2013 |
| | |

• Tutor and Mentor online, *Tutor.com*, New York City, US. (through Latinhire). 2005-2008

• OPUS Tutor & WISC Tutor, University of Oxford Programs.

• CIE Tutor & Summer Lecturer, Center for International Education, Oxford.

• Junior Lecturer, Colegio Nacional Rafael Hernandez (High School) Argentina.

In the media

- (×4) About Children Books Notices of the AMS, Illinois Conn.; Block Club Chicago; UIC Today. 2021-2022
- (× 5) About math life / women in math / activities 2019-2022 UIC Today; Wiaarkhu Magazine;: Interview for "2020 Lathisms"; Interview about organizing workshops at MFO, LaPlata1.com.
- (× 5) About Gossip spread A trust model for spreading of gossip, with Bhansali. 2019 ZAP.aeiou; UIC News; Phys.org; Tech Explorist; NewsWise.
- (×14) About Phone-Walkers behavioural study done with James Unwin. 2018

 The Atlantic; The Chicago Tribune; The Süddeutsche Zeitung; The Times of India;

 MIT Tech. Rev.; Cronica Global; The Week; Co-Design; UIC LAS; Workplace
 Insight; Nextbigwhat; Xuehua; Marketingoops Thailand; Cromo Uruguay.
- (×2) About projects I mentored. Business Wire, Kusi News. 2017
- (× 3) Sonia Kovalevsky Days with J. Unwin. 2016-2019 AWM Newsletter, 49 (5); UIC News; AWM Newsletter, 46 (6).
- (× 1) About Humboldt Fellowship awards to J. Unwin and myself. UIC Today. 2017
- (× 2) About workshops co-organized. SCGP News; AIMatters 2016.
- (× 3) About being top undergraduate student. La Nación, Clarín, El Día. 2009

Additional Experience

- Spanish: Native; English and French: Fluent; German: A2
- Choir Singer, Oratorio Society, UIUC, USA. 2013-2015
- Treasurer, Middle Common Room, New College, University of Oxford. 2010-2011
- Conference Assistant, and IT Assistant, New College, University of Oxford. 2010-2011

2010-2012

2009-2011

2007

| Work | 56. Minimal surfaces and orthogonal Higgs bundles, with Ian McIntosh. | |
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| IN PROGRESS (*= STUDENT) | 55. Generalized B-opers on real surfaces, with Biswas and Heller. | |
| (STOBERT) | 54. Sonia Kovalevsky, the potential to inspire: A journey to become a scientist. | |
| Volumes & Books | 53. Roku Raccoon's difficult day, with Martina Peškar-Rusznák (Illustrator). ISBN: 979-8-9859682-0-0. | 2022 |
| | 52. Writing for Mathematics, ISBN 979-8-7814575-9-5. | 2021 |
| | 51. Ene and the Magic Tree: a mathematical adventure, with Cecilia La Rosa (Illustrator). ISBN: 978-1737058410. | 2021 |
| | 50. Ene and the Magic Boxes: an odyssey through the world of artisans, with Cecilia La Rosa (Illustrator). ISBN: 978-1737058458. | 2021 |
| | 49. Geometry and Physics of Hitchin Systems, edited with Lara B. Anderson Symmetry, Integrability and Geometry: Methods and Applications (SIGMA). | 2019 |
| | 48. Geometry and Physics of Higgs Bundles, edited with Anderson, Hausel, Mazzeo Oberwolfach Reports, Vol. 16, N. 2, 2019, pp. 1357–1417 DOI: 10.4171/OWR/2019/23 | 2019 |
| Preprints (*= student) | 47. Correlations between COVID-19 and Dengue, with Paula Bergero and Grace Wang*. 2 ArXiv:2207.13561 | 2022 |
| | 46. Understanding Zillow's dataset via stock market indicators, with Varun Mittal*. 2 ArXiv:2210.10146 | 2022 |
| | 45. Animal Synchrony and agents' segregation, with Robin Dunbar and Sheryl Hsu*. | 2022 |
| PUBLICATIONS | 44. Generalized Hyperpolygons and applications, ZAG's Handbook of MAG, CRC press. 2 | 2022 |
| (*= STUDENT) | 43. The Power of Many: A Physarum Swarm Steiner Tree Algorithm, with Sheryl Hsu* and Fidel I. Schaposnik Massolo. Nature Scientific Reports, volume 12, Article number: 14536 (2022). | 2022 |
| | | 2022 |
| | | 2021 |
| | 40. Branes and moduli spaces of Higgs bundles on smooth projective varieties. with Indranil Biswas and Sebastian Heller. Research in the Mathematical Science, Vol. 8, No. 52 (2021) | 2021 |
| | | 2021 |
| | 38. On the generalized $SO(2n, \mathbb{C})$ -opers, with Indranil Biswas and Mengxue Yang*. Annals of Global Analysis and Geometry, 60, pages $539 - 557$ (2021) | 2021 |
| | 37. Advanced topics in gauge theory: geometry and physics of Higgs bundles. Park City Mathematics Series, Volume 28, pp. 201-252, 2021. | 2021 |
| | 36. Entendiendo la P y el Intervalo de confianza 95, w/ Paula Caporal & Daniela Bozzacchi. 2 Editorial Médica Panamericana, PROTIPED, pp.75-90; ISSN: 2362-3942. | 2021 |
| | 35. What is a hyperpolygon, with Steve Rayan. Notices of the AMS, Vol. 68, N. 1, January 2021. | 2021 |
| | 34. Moduli spaces of generalized hyperpolygons, with Steve Rayan. The Quarterly Journal of Mathematics, Vol 72 (2021), 1–25;. | 2021 |
| | | 2020 |
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| 31. | Generalized B-opers, with Indranil Biswas and Mengxue Yang*. SIGMA 16 (2020), 041, 28 pages. | 2020 |
|-----|--|------|
| 30. | Minimal percolating sets for mutating infectious diseases, with Yuyuan Luo*. Physical Review Research, Vol. 2, No. 2 (2020). | 2020 |
| 29. | Higgs bundles without geometry, with Steve Rayan. Snapshots of modern mathematics, DOI 10.14760/SNAP-2020-008-EN. | 2020 |
| 28. | Higgs bundles – recent applications, Notices of the AMS, Vol. 67 No. 5 (May 2020) | 2020 |
| 27. | A trust model for bootstrap percolation, with Rinni Bhansali*. Proc. R. Soc. A 476: 20190826 (2020). | 2020 |
| 26. | Cayley and Langlands type correspondences for orthogonal Higgs bundles, with David Baraglia. Transactions of the AMS, Vol. 371, Num. 10 (2019) 41 pages. | 2019 |
| 25. | A geometric approach to orthogonal Higgs bundles, European Journal of Mathematics, Vol. 4, Num. 4, pp 1390-1411 (2018). | 2018 |
| 24. | Singular geometry and Higgs bundles in string theory, with L. B. Anderson, M. Esole and L. Fredrickson. SIGMA , 14 (2018), 037, 27 pages | 2018 |
| | Branes through finite group actions, with Sebastian Heller. Journal of Geometry and Physics, Vol. 129 (2018) 279-293. | 2018 |
| 22. | Brauer group of Moduli of Higgs bundles and connections, with Baraglia and Biswas. A Festschrift in Honour of Nigel Hitchin, Vol. 2, Oxford University Press. | 2018 |
| 21. | Modeling epidemics on d-cliqued graphs, with Anlin Zhang*. Letters in Biomathematics, Volume 5, Number 1 (2018), p. 49-69. | 2018 |
| 20. | The phone walkers: A study of human dependance on inactive mobile devices, with James Unwin. Behaviour , (2018) Volume 155, Issue 5, p. 389 - 414. | 2018 |
| 19. | On the geometry of regular icosahedral capsids containing disymmetrons, with K-S. Ang*. Journal of Structural Biology , Volume 197, Issue 3 (2017), p. 340-349. | 2017 |
| 18. | T-Branes at Limits of Geometry, with L.B. Anderson, J.J. Heckman, and S. Katz. J. High Energ. Phys. (2017) 2017: 58. | 2017 |
| 17. | An introduction to spectral data for Higgs bundles Lecture Note Series, IMS LNS Vol 65 (2017), 38 pages. | 2017 |
| 16. | Monodromy of rank 2 twisted Hitchin systems and real character varieties, with David Baraglia. Transactions of the AMS , Vol. 370, Num. 8, (2018). | 2017 |
| 15. | Automorphisms of \mathbb{C}^* moduli spaces associated to a Riemann surface, with David Baraglia and Indranil Biswas. SIGMA 12 (2016), 007, 14 pages. | 2016 |
| 14. | Higgs bundles and exceptional isogenies, with Steve Bradlow. Res. Math. Sci. (2016) 3:14 DOI 10.1186/s40687-016-0062-0. | 2016 |
| 13. | Interface control and snow crystal growth, with Jessica Li*. Phys. Rev. E, 93, 023302, 2016. | 2016 |
| 12. | Real structures on moduli spaces of Higgs bundles, with David Baraglia. Adv. Theor. Math. Phys., Vol. 20, N. 3 (2016), 525-551. | 2016 |
| 11. | Higgs bundles and applications. Oberwolfach Reports , Report No. 31 (2015), 31-33. | 2015 |
| 10. | Spectral data for $U(m,m)$ -Higgs bundles. Int. Math. Res. Notices, Vol. 2015 no. 11. | 2015 |
| 9. | Nonabelianization of Higgs bundles, with Nigel Hitchin. J. Differential Geom. Volume 97, Number 1 (2014), 79-89. | 2014 |
| 8. | Higgs bundles and (A, B, A) -branes, with David Baraglia. Communications in Mathematical Physics, Vol. 331 No. 3. | 2014 |
| 7. | Spectral data for G-Higgs bundles. DPhil Thesis , University of Oxford, 170 p. | 2013 |

| | 6. Monodromy of the SL ₂ Hitchin fibration. Int. J. Math. Vol. 24, 1350013 (2013) | 2013 |
|---------------------------|---|------|
| POPULAR PRESS ARTICLES | 5. Working from Home. 4 Months and Still Counting, with A. Frabetti, V. Salnikov EMS Newsletter , 9 (117), 38-41, September 2020. | 2020 |
| | 4. Mathematics in the sea, with James Unwin. AWM Newsletter, Vol.49, No.6. | 2019 |
| | 3. Sonia Kovalevsky Days, the potential to inspire, with James Unwin. AWM Newsletter . Vol.49, No.5. | 2019 |
| | Bridges between worlds, from past to present. AIMatters 2016, Newsletter of the American Institute of Mathematics. | 2016 |
| | 1. Sonia Kovalevsky Days in Chicago, with J. Unwin. AWM Newsletter, Vol. 46, No.6. | 2016 |