## Laura P. Schaposnik M. (July 15, 2022)

PERSONAL INFORMATION	Department of Mathematics, University of Illinois, Chicago, IL 60607, USA	Born: 20 July, 1985 in La Plata, Argenti Email: lauraschaposnik@gmail.com https://schapos.people.uic.edu	na
EMPLOYMENT	Professor, University of Illinois at Chic	cago, USA.	$since\ 2022$
	Associate Professor, University of Illi	nois at Chicago, USA.	2018-2022
	Assistant Professor, University of Illi	nois at Chicago, USA.	2015-2018
	L.Doob. Research Assistant Prof., U	University of Illinois at Urbana-Champaign, U	SA. 2013-2015
	Wissenschaftlicher Assistent, Heidel	lberg University, Heidelberg, Germany	2012-2013
	Stipendiary Lecturer in Mathemat	ics, Trinity & Magdalen College, Oxford, UF	ζ. 2011-2012
	Retained Lecturer in Mathematics		2010-2011
EDUCATION	University of Oxford. New College, O.Phil. in Mathematics, Advisor: Prof.	,	2008-2013
	National University of La Plata. La Lic. en Matematica (MMath equiv.). Ga	a Plata, Argentina. rade: 10/ 10. Advisor: Prof. Jorge Solomin.	2004-2008
	Conservatory Gilardo Gilardi. Mus	ic Conservatory, La Plata, Argentina.	2003-2007
VISITING POSITIONS	9. Visiting Fellow, All Souls College,	University of Oxford, UK.	Spring 2023
	8. Visiting professor, Mathematical I	nstitute, University of Oxford, UK.	Spring 2023
	7. Research Professor, Mathematical	Sciences Research Institute, USA.	Fall 2022
	6. Research Member, Mathematical S	Sciences Research Institute, USA.	Fall 2019
	5. Alexander von Humboldt fellow, F	Treie Universität Berlin, Germany.	Summer 2019
	4. Visiting Associate Professor, Simo	ns Center for Geometry and Physics, USA.	Spring 2019
	3. Visiting Fellow, New College, Univ	* .	Fall 2018
	2. Visiting professor, Mathematical I		Fall 2018
	1. Alexander von Humboldt Fellow, l	· · · · · · · · · · · · · · · · · · ·	Fall 2017
SELECTED	10. NSF FRG Award DMS 21521	107 (PI, w/ Mulase, Sawon, Dumitrescu).	2022-2025
GRANTS AND FELLOWSHIPS	9. <i>RTG: Algebra, Geometry, and</i> (Key Personnel, w/ (PI) Coskun e		2021-2026
SINCE 2015	8. Simons Fellowship.	e. ai.)	2022-2023
	•	drickson, Mazzeo, Mrowka, (PI) Walpuski).	2022
	6. NSF CAREER Award DMS	1749013 (PI).	2018-2023
	5. NSF Conference Award – "U		2021
	4. <b>NSF DMS 1929915</b> (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 Mather	matical Society (AMS).	$since\ 2017$
	8. Member of the Unión Matemátic		$since\ 2017$
	7. Faculty member of the GEAR N		$since\ 2015$
	-	T, Massachusetts Institute of Technology.	since 2014
	5. <b>Member</b> of the AWM Gweneth H	Humphreys Award Selection Committee	2022 - 2025

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

TE G: E II: I I : 'I G I : "ITTOD"	2012 2012
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

SELECTED UNDERGRADUATE & GRADUATE PRIZES, AWARDS, AND GRANTS 2006-2013

INTERNATIONAL MEETINGS ORGANIZED

3. AMS Simons Travel Grant (US\$ 4k)	2014-2015
2. Public Engagement Grant, UIUC w./ Delcourt (PI) & Kedem.	2014-2015
5. European Science Foundation short visit Grant via "ITGP".	2012-2013
4. QGM 6 months research grant, QGM, Aarhus and Oxford.	2012
3. Clarendon Award and New College Scholarship.	2008-2011
2. National Government and Santander Bank and Joaquín V González	z <i>Prize</i> . 2009
1. Argentinian Mathematical Olympiads, 3rd place, $w/R$ . Lafuente (×2)	2007-08

- 39. **Co-Organizer**, with Mulase, Dumitrescu, Cruz Morales & Garcia Failde Fall 2023 BANFF: "Complex Lagrangians, Mirror Symmetry, and Quantization" BANFF, Canada.
- 38. **Co-Organizer**, with Oscar García-Prada and Steven Bradlow Spring 2023 ICMAT: "Workshop on Hitchin systems and Langlands duality", ICMAT, Spain.
- 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

  August 2022
- 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.

  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.
- 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.
- 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 September 2015 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".
- 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

FOR GRADUATE STUDENTS

AND POST-DOCS

- 10. Universidad Nacional de La Plata, La Plata, Argentina. 3 Hrs - Lectures on knot theory.
- November 2022
- 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  $\sim 150$  participants.

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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 Notre Dame, South Bend, USA. 1 University of Illinois at Chicago, Chicago, 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 North Carolina at Chapel Hill, USA. 1 University of North Carolina at Chapel Hill, USA. 1 Univ				
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 Viviersity of Illinois at Chicago, Chicago, USA. 1 University of North Carolina at Chapel Hill, USA. 3 January 2018 6 University of North Carolina at Chapel Hill, USA. 4 January 2018 6 University of North Carolina at Chapel Hill, USA. 4 January 2018	0.			2010
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<ol> <li>String-Maths 2016*, Collège de France, Paris, France.</li> <li>University of Illinois at Chicago, Chicago, USA.</li> <li>† Colorado State niversity, Denver, USA.</li> <li>University of North Carolina at Chapel Hill, USA.</li> <li>January 2015</li> </ol>	11.	Universidad Nacional de La Plata, Argentina.	May	2017
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5 University of Poster Messachusetts IICA	6.	University of North Carolina at Chapel Hill, USA.	January	2015
5. University of Doston, Massachusetts, USA. January 2018	5.	University of Boston, Massachusetts, USA.	January	2015
4. University of Minnesota, Minneapolis, USA. January 2015	4.	University of Minnesota, Minneapolis, USA.	January	2015
3. Purdue University, West Lafayette, USA. December 2014	3.	Purdue University, West Lafayette, USA.	December	2014
2. University of Illinois at Chicago, Chicago, USA. December 2014	2.	University of Illinois at Chicago, Chicago, USA.	December	2014

 $1. \ \textit{Boston College}, \, \text{Boston}, \, \text{USA}.$ 

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

Colloquia and Plenary talks (\*)

November 2014

November 2014

Conference and Workshop Talks: List since 2012 (5 before that)

52.	Analytic and Geometric Aspects of Gauge Theory, MSRI, USA.	August	2022
51.	Latin American and Caribbean Workshop on Mathematics and Gender, BIRS	. 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	SA. 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
30.	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
25.	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	2016
22.	Higgs Bundles in Geometry and Physics, University of Heidelberg, Germany.	February	2016
21.	Higgs bundles and Hitchin system, Centre Bernoulli, Switzerland.	January	2016
20.	Workshop on Holomorphic differentials, Cape Town, South Africa.	January	2016
19.	50 years of the Narasimhan–Seshadri Theorem, Chennai, India.	October	2015
18.	Spectral data for Higgs bundles, AIM, San Jose, USA.	August	2015
17.	String Mathematics workshop, Harvard University, USA.	August	2015
16.	Differentialgeometrie im Großen, Oberwolfach, Germany.	July	2015
15.	2015 Joint International Meeting with the AMS, Porto, Portugal.	June	2015
14.	Langlands workshop, UIUC, USA.	${\bf November}$	2014
13.	Geometric structures and representation varieties, SNU Seoul, Korea.	${\bf November}$	2014
12.	Modern trends in Gromov-Witten theory, Hannover, Germany.	September	2014
11.	Workshop on the moduli space of Higgs bundles, NUS, Singapore.	July	2014
10.	Workshop on the Geometry and Physics of Moduli Spaces, Miraflores, Spain.	June	2014
9.	Character Varieties & Geometric Structures, Howard University, USA.	${\bf December}$	2013
8.	9th International ISAAC Congress, Krakow, Poland.	August	2013
7.	Topology of moduli spaces of representations, Miraflores, Spain.	March	2013
6.	Workshop on Geometry of Surface Group Representations, CRM, Spain.	May	2012

Seminars SINCE 2015(22 Before Then)

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
===	Mathematical Institute IIII and IIII (2 , c , 11)	9010 0000
	Mathematical Institute, University of Oxford, UK. (3 +6 months)	2018, 2023
	Mathematical Sciences Research Institute (MSRI), Berkeley, USA $(6+6 \text{ mon MNR})$	•
5.	IHP, Paris, France $(1+1+1 \ (Research \ in \ pairs) \ months)$	2012,2016, 2022

SELECTED RESEARCH VISITS

<sup>5.</sup> IHP, Paris, France (1+1+1 (Research in pairs) months)

<sup>4.</sup> Freie Universität Berlin, Germany. (2 +5 months)  $2017,\ 2019$ 

	<ol> <li>Simons Center for Geometry and Physics, Stony Brook, USA. (5 months)</li> <li>IMPA, Rio de Janeiro, Brazil. (4.5 months)</li> </ol>	2019 008, 2017
	1. National University of Singapore, Singapore. (2.5 months) 2013, 20	014, 2016
Editorial Boards	• Guest Editor. SIGMA special issue "Geometry and Physics of Hitchin systems". 2	ince 2019 2017-2019 2010-2011
UNIVERSITY AND DEPARTMENT SERVICE AT UIC	<ul> <li>Co-Organiser, Geometry, Topology and Dynamics seminar.</li> <li>Research Assistant Professor Search Committee (× 5).</li> <li>Admissions, Fellowships, Assistantships committee (× 5)</li> </ul>	ince 2020 ince 2016 2015-2020 2019, 2021 2017-2018
OTHER PROFESSIONAL SERVICE ACTIVITIES  UNIVERSITY LARGE CLASS	<ul> <li>National Science Centre, Poland, proposal reviewer.</li> <li>Behavioural Science Referee: J. of Med.Int.Res.; Open Psy.J.;</li> <li>NSF Reviewer (× 4).</li> <li>WMC SheSource Expert, for Women's Media Center (WMC).</li> <li>Co-Organizer of Research seminars, University of Heidelberg, Germany.</li> <li>MathSciNet Reviewer (accept duties ~ 2 times per year).</li> <li>Admissions Interviewer. Magdalen and St Peter's Colleges, Oxford.</li> </ul>	ince 2017 2012-2013 ince 2014 2009-2011 ince 2012 ts App.; Math; ; pm. Phys.
TEACHING	<ul> <li>Math 215: Introduction to advanced mathematics. (×4) Fall 2015, 2016 &amp; Spr.</li> <li>Math 596: Independent study. (×6) (graduate course) Fall 2015, 2016, 2017 &amp; Spr.</li> <li>Math 547: Algebraic Topology I. (×1) (graduate course)</li> <li>Math 549: Differentiable Manifolds I. (×2) (graduate course) Fall 2015 &amp; Spr.</li> <li>University Instructor, University of Illinois at Urbana-Champaign, USA</li> </ul>	ring 2018 ring 2017 Fall 2016
University 2 to 1 Teaching	College tutorials, University of Oxford, UK.  As a Stipendiary Lecturer in Mathematics for Trinity College and Magdalen College As a Retained Lecturer for Hertford College As a College Tutor for New College, St. Peter's College, Lincoln College and Hertford College  • 3D Calculus; Calculus of Variations; Linear Algebra I,II; Groups, Rings and Fields.	2010-2012 llege.
Teaching Assistantships	Class Tutor, Mathematical Institute, Oxford, UK.  • B9. Algebraic Number Theory (& Revision Classes).  Teaching Assistant, Mathematical Institute, University of Oxford.  2  2  2  2  2  2  3  4  4  5  6  7  7  7  7  7  7  7  7  7  7  7  7	2010

• B9. Algebraic Number Theory; B3. Geometry of Surfaces; C9.1 Elliptic Curves.

• Treasurer, Middle Common Room, New College, University of Oxford.

• Conference Assistant, and IT Assistant, New College, University of Oxford.

Additional EXPERIENCE

PROGRAMS &

TEACHING

Outreach

ACTIVITIES

2010-2011

2010-2011

Work IN PROGRESS (*= STUDENT)	<ul> <li>56. Understanding Zillow's dataset via MACD indicators, with Varun Mittal*.</li> <li>55. On correlations between COVID-19 and Dengue, with Paula Bergero and Grace Wang*.</li> <li>54. Minimal surfaces and orthogonal Higgs bundles, with Ian McIntosh.</li> <li>53. Generalized B-opers on real surfaces, with Biswas and Heller.</li> <li>52. Sonia Kovalevsky, the potential to inspire: A journey to become a scientist.</li> </ul>	
Volumes & Books	51. Roku Raccoon's difficult day, with Martina Peškar-Rusznák (Illustrator). ISBN: 979-8-9859682-0-0.	2022
	50. Writing for Mathematics, ISBN 979-8-7814575-9-5.	2021
	49. Ene and the Magic Tree: a mathematical adventure, with Cecilia La Rosa (Illustrator). ISBN: 978-1737058410.	2021
	48. Ene and the Magic Boxes: an odyssey through the world of artisans, with Cecilia La Rosa (Illustrator). ISBN: 978-1737058458.	2021
	47. Geometry and Physics of Hitchin Systems, edited with Lara B. Anderson Symmetry, Integrability and Geometry: Methods and Applications (SIGMA).	2019
	46. 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	45. Animal Synchrony and agents' segregation, with Robin Dunbar and Sheryl Hsu*.	2022
(*= STUDENT)	44. Generalized Hyperpolygons and applications, ZAG's Handbook of MAG, CRC press.	2022
Publications (*= student)	43. The Power of Many: A Physarum Swarm Steiner Tree Algorithm, with Sheryl Hsu* and Fidel I. Schaposnik Massolo.  Nature Scientific Reports, (under review).	2022
	42. Cell fusion through slime mold network dynamics, with Sheryl Hsu*.  Journal of the Royal Society Interface, J. R. Soc. Interface 19: 20220054.	2022
	41. Triality for homogeneous polynomials, with Sebastian Schulz*. SIGMA, 17 (2021), 079, 14 pages.	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
	39. A modified age-structured SIR model for COVID-19 type viruses, with Vishaal Ram*. Nature Scientific Reports, 11, 15194 (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. Editorial Médica Panamericana, PROTIPED, pp.75-90; ISSN: 2362-3942.	
	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
	33. Extrapolating continuous color emotions through deep learning, with Vishaal Ram*, and Konstantinou, Volkan, Papadatou-Pastou, Manav, Jonauskaite, Mohr. Physical Review Research, Vol. 2, No. 3, (2020).	2020
	32. Orthogonal Higgs bundles with singular spectral curves, with Bradlow and Branco*. Communications in Analysis and Geometry, Vol. 28, N. 8, 1895–1931, 2020.	2020
	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,	2020
27.	Notices of the AMS, Vol. 67 No. 5 (May 2020)  A trust model for bootstrap percolation, with Rinni Bhansali*.	2020
26.	Proc. R. Soc. A 476: 20190826 (2020).  Cayley and Langlands type correspondences for orthogonal Higgs bundles,	2019
25.	with David Baraglia. <b>Transactions of the AMS</b> , Vol. 371, Num. 10 (2019) 41 pages. A geometric approach to orthogonal Higgs bundles,	2018
24.	European Journal of Mathematics, Vol. 4, Num. 4, pp 1390-1411 (2018). Singular geometry and Higgs bundles in string theory,	2018
23.	with L. B. Anderson, M. Esole and L. Fredrickson. <b>SIGMA</b> , 14 (2018), 037, 27 pages Branes through finite group actions, with Sebastian Heller.	2018
22	<b>Journal of Geometry and Physics</b> , Vol. 129 (2018) 279-293.  Brauer group of Moduli of Higgs bundles and connections, with Baraglia and Biswas.	2018
	A Festschrift in Honour of Nigel Hitchin, Vol. 2, Oxford University Press.	
	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. <b>Behaviour</b> , (2018) Volume 155, Issue 5, p. 389 - 414.	2018
19.	On the geometry of regular icosahedral capsids containing disymmetrons, with K-S. Ang*. <b>Journal of Structural Biology</b> , 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	2017
16.	Lecture Note Series, IMS LNS Vol 65 (2017), 38 pages.  Monodromy of rank 2 twisted Hitchin systems and real character varieties,	2017
15.	with David Baraglia. <b>Transactions of the AMS</b> , Vol. 370, Num. 8, (2018). Automorphisms of $\mathbb{C}^*$ moduli spaces associated to a Riemann surface,	2016
	with David Baraglia and Indranil Biswas. <b>SIGMA</b> 12 (2016), 007, 14 pages. <i>Higgs bundles and exceptional isogenies</i> , with Steve Bradlow.	2016
	<b>Res. Math. Sci.</b> (2016) 3:14 DOI 10.1186/s40687-016-0062-0.	
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. <b>Oberwolfach Reports</b> , 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.	2014
8.	<b>J. Differential Geom.</b> Volume 97, Number 1 (2014), 79-89. Higgs bundles and $(A, B, A)$ -branes, with David Baraglia.	2014
7.	Communications in Mathematical Physics, Vol. 331 No. 3. Spectral data for G-Higgs bundles.	2013
	<b>DPhil Thesis</b> , University of Oxford, 170 p.  Monodromy of the $SL_2$ Hitchin fibration.	2013
0.	Int. J. Math. Vol. 24, 1350013 (2013)	2010

## POPULAR PRESS ARTICLES

5.	Working from Home. 4 Months and Still Counting, with A. Frabetti, V. Salnikov	2020
	<i>EMS Newsletter</i> , 9 (117), 38-41, September 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.	2019
	AWM Newsletter. Vol.49, No.5.	
2.	Bridges between worlds, from past to present.	2016
	AIMatters 2016, Newsletter of the American Institute of Mathematics.	
1.	Sonia Kovalevsky Days in Chicago, with J. Unwin. AWM Newsletter, Vol. 46, No.6.	2016