

Laura P. Schaposnik M. (August 6, 2021)

PERSONAL INFORMATION	Department of Mathematics, University of Illinois, Chicago, IL 60607, USA	Born: 20 July, 1985 in La Plata, Argentina Email: lauraschaposnik@gmail.com https://schapos.people.uic.edu
EMPLOYMENT	Associate Professor , University of Illinois at Chicago, USA. <i>since</i> 2018 Assistant Professor , University of Illinois at Chicago, USA. 2015-2018 J.L.D. Research Assistant Prof. , University of Illinois at Urbana-Champaign, USA. 2013-2015 Wissenschaftlicher Assistent , Heidelberg University, Heidelberg, Germany 2012-2013 Stipendiary Lecturer in Mathematics , Trinity & Magdalen College, Oxford, UK. 2011-2012 Retained Lecturer in Mathematics , Hertford College, Oxford, UK. 2010-2011	
EDUCATION	University of Oxford . New College, Oxford, UK. 2008-2013 D.Phil. in Mathematics, Advisor: Prof. Nigel Hitchin. National University of La Plata . La Plata, Argentina. 2004-2008 Lic. en Matematica (MMath equiv.). Grade: 10/ 10. Advisor: Prof. Jorge Solomin. Conservatory Gilardo Gilardi . Music Conservatory, La Plata, Argentina. 2003-2007 Formación Básica (FOBA), with only <i>Piano 6</i> missing final.	
VISITING POSITIONS	7. Visiting professor, Mathematical Institute, University of Oxford, UK. Spring 2023 6. Research Member, Mathematical Sciences Research Institute, USA. Fall 2022 5. Research Member, Mathematical Sciences Research Institute, USA. Fall 2019 4. Alexander von Humboldt fellow, Freie Universität Berlin, Germany. Summer 2019 3. Visiting Associate Professor, Simons Center for Geometry and Physics, USA. Spring 2019 2. Visiting Fellow, New College & Math. Institute, University of Oxford, UK. Fall 2018 1. Alexander von Humboldt fellow, Freie Universität Berlin, Germany. Fall 2017	
SELECTED GRANTS AND FELLOWSHIPS SINCE 2015	8. <i>Simons Fellowship</i> . 2022-2023 7. <i>MSRI Semester</i> (Co-PI, w/ Fredrickson, Mazzeo, Mrowka, (PI) Walpuski). 2022 6. <i>NSF CAREER Award DMS 1749013</i> (PI). 2018-2023 5. <i>NSF Conference Award – “Unity of Mathematics”</i> (PI). 2021 4. <i>NSF DMS 1929915</i> (PI, w/ L. Anderson). 2019 3. <i>Simons Center for Geometry and Physics Semester</i> , (PI, w/ L. Anderson). 2019 2. <i>Alexander von Humboldt Fellowship</i> , (PI). 2017-2019 1. <i>NSF DMS 1509693 and DMS 1611835</i> (PI). 2015-2019	
MEMBERSHIPS	7. Member of the Hitchin-Ngo Lab . ICMAT, Madrid, Spain 2021-2023 6. Member of the AWM-Joan & Joseph Birman Prize Committee . 2019-2023 5. Member of the American Mathematical Society (AMS), and Unión Matemática Argentina (UMA). <i>since</i> 2017 4. Faculty member of the GEAR Network . <i>since</i> 2015 3. Faculty mentor for PRIMES-MIT , Massachusetts Institute of Technology. <i>since</i> 2014 2. Co-Chair of the AMS Joint Committee on Women in Maths . (JCW). 2017-2018 1. Representative of the Association of Women in Mathematics (AWM) at JCW . 2015-2018	
WORK IN PROGRESS	48. <i>The potential to inspire: A journey to become a scientist</i> , 2021 A children’s book about Sonia Kovalevsky’s journey. 47. <i>Desynchrony and the dispersal of groups via machine learning</i> 2021 with Robin Dunbar, Sheryl Hsu and James Unwin.	

VOLUMES
& BOOKS

46. [Ene and the Magic Boxes: an odyssey through the world of artisans](#), 2021
A children's book teaching bilingual (Spanish-English) vocabulary.
with Cecilia La Rosa (Illustrator). ISBN: 978-1737058458.
45. [Geometry and Physics of Hitchin Systems](#). 2019
Special issue (edited with Lara B. Anderson) of
[Symmetry, Integrability and Geometry: Methods and Applications \(SIGMA\)](#).
44. [Geometry and Physics of Higgs Bundles](#), 2019
(edited with L.B. Anderson, T. Hausel, R.Mazzeo)
Oberwolfach Reports, Vol. 16, N. 2, 2019, pp. 1357–1417 DOI: 10.4171/OWR/2019/23

PREPRINTS
SUBMITTED FOR
PUBLICATION

43. *Cell fusion through slime mold network dynamics*, 2021
with Sheryl Hsu. [ArXiv.2106.11371](#).
42. *Triality for homogeneous polynomials*, with Sebastian Schulz. 2020
submitted.

PUBLICATIONS

41. *Branes and moduli spaces of Higgs bundles on smooth projective varieties*. 2021
with Indranil Biswas and Sebastian Heller.
Research in the Mathematical Science, (To appear)
40. *A modified age-structured SIR model for COVID-19 type viruses*, with Vishaal Ram. 2021
Nature Scientific Reports, 11, 15194 (2021).
39. *On the generalized $SO(2n, \mathbb{C})$ -opers*, with Indranil Biswas and Mengxue Yang. 2021
Annals of Global Analysis and Geometry, 2021.
38. *Advanced topics in gauge theory: geometry and physics of Higgs bundles*. 2021
Park City Mathematics Series, AMS (to appear).
37. *Entendiendo la P y el Intervalo de confianza 95*, with Paula Caporal. 2021
Editorial Médica Panamericana, (to appear).
36. *What is... a hyperpolygon*, with Steve Rayan. 2021
Notices of the AMS, Vol. 68, N. 1, January 2021.
35. *Extrapolating continuous color emotions through deep learning*, with Vishaal Ram, 2020
and Konstantinou, Volkan, Papadatou-Pastou, Manav, Jonauskaite, Mohr.
Physical Review Research, Vol. 2, No. 3, (2020).
34. *Orthogonal Higgs bundles with singular spectral curves*, with Bradlow and Branco. 2020
Communications in Analysis and Geometry, Vol. 28, N. 8, 1895–1931, 2020.
33. *Moduli spaces of generalized hyperpolygons*, with Steves Rayan. 2020
The Quarterly Journal of Mathematics, Vol 00 (2020), 1–25;.
32. *Generalized B-opers*, with Indranil Biswas and Mengxue Yang. 2020
SIGMA 16 (2020), 041, 28 pages.
31. *Minimal percolating sets for mutating infectious diseases*, with Yuyuan Luo. 2020
Physical Review Research, Vol. 2, No. 2 (2020).
30. *Higgs bundles without geometry*, with Steves Rayan. 2020
Snapshots of modern mathematics, DOI 10.14760/SNAP-2020-008-EN.
29. *Higgs bundles – recent applications*, 2020
Notices of the AMS, Vol. 67 No. 5 (May 2020)
28. *A trust model for bootstrap percolation*, with Rinni Bhansali. 2020
Proc. R. Soc. A 476: 20190826 (2020).
27. *Cayley and Langlands type correspondences for orthogonal Higgs bundles*, 2019
with David Baraglia. **Transactions of the AMS**, Vol. 371, Num. 10 (2019) 41 pages.
26. *A geometric approach to orthogonal Higgs bundles*, 2018
European Journal of Mathematics, Vol. 4, Num. 4, pp 1390-1411 (2018).
25. *Singular geometry and Higgs bundles in string theory*, 2018
with L. B. Anderson, M. Esole and L. Fredrickson. **SIGMA**, 14 (2018), 037, 27 pages

24. *Branes through finite group actions*, with Sebastian Heller. 2018
Journal of Geometry and Physics, Vol. 129 (2018) 279-293.
 23. *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.
 22. *Modeling epidemics on d-cliqued graphs*, with Anlin Zhang. 2018
Letters in Biomathematics, Volume 5, Number 1 (2018), p. 49-69.
 21. *The phone walkers: A study of human dependance on inactive mobile devices*, 2018
with James Unwin. **Behaviour**, (2018) Volume 155, Issue 5, p. 389 - 414.
 20. *On the geometry of regular icosahedral capsids containing disymmetrons*, with K-S. Ang. 2017
Journal of Structural Biology, Volume 197, Issue 3 (2017), p. 340-349.
 19. *T-Branes at Limits of Geometry*, with L.B. Anderson, J.J. Heckman, and S. Katz. 2017
J. High Energ. Phys. (2017) 2017: 58.
 18. *An introduction to spectral data for Higgs bundles* 2017
Lecture Note Series, IMS LNS Vol 65 (2017), 38 pages.
 17. *Monodromy of rank 2 twisted Hitchin systems and real character varieties*, 2017
with David Baraglia. **Transactions of the AMS**, Vol. 370, Num. 8, (2018).
 16. *Automorphisms of \mathbb{C}^* moduli spaces associated to a Riemann surface*, 2016
with David Baraglia and Indranil Biswas. **SIGMA** 12 (2016), 007, 14 pages.
 15. *Higgs bundles and exceptional isogenies*, with Steve Bradlow. 2016
Res. Math. Sci. (2016) 3:14 DOI 10.1186/s40687-016-0062-0.
 14. *Interface control and snow crystal growth*, with Jessica Li. 2016
Phys. Rev. E, 93, 023302, 2016.
 13. *Real structures on moduli spaces of Higgs bundles*, with David Baraglia. 2016
Adv. Theor. Math. Phys., Vol. 20, N. 3 (2016), 525-551.
 12. *Higgs bundles and applications*. 2015
Oberwolfach Reports, Report No. 31 (2015), 31-33.
 11. *Spectral data for $U(m, m)$ -Higgs bundles*. 2015
Int. Math. Res. Notices, Vol. 2015 no. 11.
 10. *Nonabelianization of Higgs bundles*, with Nigel Hitchin. 2014
J. Differential Geom. Volume 97, Number 1 (2014), 79-89.
 9. *Higgs bundles and (A, B, A) -branes*, with David Baraglia. 2014
Communications in Mathematical Physics, Vol. 331 No. 3.
 8. *Spectral data for G -Higgs bundles*. 2013
DPhil Thesis, University of Oxford, 170 p.
 7. *Monodromy of the SL_2 Hitchin fibration*. 2013
Int. J. Math. Vol. 24, 1350013 (2013)
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5. *Working from Home. 4 Months and Still Counting*, with A. Frabetti, V. Salnikov 2020
EMS Newsletter, 9 (117), 38-41, September 2020.
 4. *Mathematics in the sea*, with James Unwin. 2019
AWM Newsletter, Volume 49, No. 6.
 3. *Sonia Kovalevsky Days, the potential to inspire*, with James Unwin. 2019
AWM Newsletter. Volume 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 James Unwin. 2016
AWM Newsletter, Volume 46, No. 6.
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SUPERVISION OF PHD STUDENTS	2. Mengxue Yang , (PhD Student, UIC) Thesis on generalized B -opers. (see two papers above)	<i>Expected 2022</i>
	1. Hassan Babaei , (PhD Student, UIC) Thesis on mathematical physics.	<i>Expected 2023</i>
PHD AND MASTER THESIS COMMITTEES	5. Fabiola Cordero , PUC-Rio, Brazil.	2021
	4. Juan Sebastián Numpaque , Universidad de los Andes, Colombia.	2021
	3. Keaton Quinn , University of Illinois at Chicago, USA.	2020
	2. Charles Alley , University of Illinois at Chicago, USA.	2019
	1. Anonymous reviewer , Roma Tre University, Italy	2019
SUPERVISION OF RESEARCH PROJECTS	10. Sheryl Hsu , Supervised through MIT PRIMES-USA (High School). Project title: “Flow conductivity models inspired by Physarum Polycephalum”. Project title: “Desynchrony and the dispersal of groups via machine learning”.	2021
	9. Vishaal Ram , Supervised through MIT PRIMES-USA (High School). Project title: “Machine learning – memory and emotions”. Project title: “COVID-19 – age-targeted measures”. 2020 S.-T. Yau High School Science Bronze Award . Regeneron Science Talent Search Scholar 2020 .	2020
	8. Yuyuan Luo , Supervised through MIT PRIMES-USA (High School, NY). Project title: “Minimal percolating sets for mutating infectious diseases”. JMM MAA Undergraduate Poster Session presenter . JMM Outstanding Poster Presentation Award . Currently an undergraduate student at <i>MIT</i> .	2019
	7. Rinni Bhansali , Supervised through MIT PRIMES-USA (High School, NY). Project title: “A trust model for bootstrap percolation”. Regeneron Science Talent Search Scholar 2019 (see Article about her here). JHSH National Finalist 2019 ; JMM MAA session speaker . Currently an undergraduate student at <i>Stanford University</i> .	2018
	6. Mihail Hurmuzov (Graduate Student project, UIC) Project on invariant polynomials of graphs and knots. Now student at the University of York, UK.	2017-2018
	5. Rachana Madhukara, Kevin Ren, Anlin Zhang (High School, California). Project title: “Epidemic outbreak in symmetric networks”. Group National Finalist in the 2017 Siemens Competition .	2017
	4. Anlin Shang , Supervised through MIT PRIMES-USA (High School, California). Project title: “Virus spread in symmetric networks”. JMM MAA Undergraduate Poster Session presenter . Currently an undergraduate student at <i>Princeton University</i> .	2017
	3. Kai-Siang Ang , Supervised through MIT PRIMES-USA (High School, California). Project title: “Geometry of Icosahedral Viruses”. Regeneron Science Talent Search Scholar 2017 . Currently an undergraduate student at <i>Stanford University</i> .	2016
	2. Jessica Li , Supervised through IGL and MIT PRIMES-USA (High School, NY). Project title: “Mathematical modelling of snowflake growth”. Semifinalist in the 2014 Siemens Competition and Intel Competition (among others); Currently an undergraduate student at <i>Harvard University</i> .	2014
	1. C. Da, M. Zosky, J. Li, C. Formosa (Undergraduates and graduates). Supervised through IGL . Project title “Geometry in nature”.	2014

AWARDS AND
GRANTS
2014 - *present*
(~ US\$ 1.8M)

21. *Simons Fellowship* (PI) (US\$ 100k). 2022-2023
20. *NSF CAREER Award* (PI) (US\$ 400k). 2018-2023
DMS 1749013: “CAREER: Branes in the moduli space of Higgs bundles”.
19. *UIC Start-up Package* (US\$ 365k). 2015-2023
18. *IHP: Research in Pairs* (with Steven Rayan and Emanuele Macri) 2021
17. *UIC Visitor’s fund award* (To host Rayan, Saberi, Nikolaev), (US\$5.5k). 2020
16. *NSF DMS and DPS grant* (PI, L. Anderson Co-PI) (US\$ 9k). 2019
DMS 1929915: “Graduate Summer School on the Math. and Physics of Hitchin Systems”.
15. *Simons Center for Geometry and Physics* (~US\$ 300k), 2019
1-Semester Program Grant (PI w/ L. Anderson).
14. *SCGP*, Conference Grants (PI w/ L. Anderson, US\$ 35k \times 2). 2019
13. *Alexander von Humboldt Fellowship* (US\$ 40k) 2017-2019
12. *NSF Research grant* (PI) (US\$ 144k) 2015-2019
DMS 1509693 and DMS 1611835: “Spectral data and the moduli space of Higgs bundles”.
11. *UIC Research Award*, through UFRP program (US\$ 30k). 2015-2018
10. *Conference grant* via NSF RTG grant DMS-1246844 (PI: L. Ein). (US\$ 45k) 2016-2018
9. *UIC Visitor’s fund award* (To host Davison, Hoskins, Pepin, Schulz), (US\$5k). 2018
8. *UIUC Math Department Conference grant* (US\$ 5k). 2017
7. *NSF Conference grants through GEAR Network* (PI), (US\$ 90k). 2015-2017
6. *American Institute of Mathematics* (PI), Conference Grant (US\$ 35k \times 2). 2015-2017
5. *Long & Short visit grants via GEAR Network* (US\$ 30k), 2014-2017
4. *Simons Center for Geometry and Physics* (PI), Conference Grant (US\$ 30k). 2016
3. *IHP trimester participant support* (\times 2), Institut Henri Poincaré (US\$ 4k) 2012-2016
2. *AMS Simons Travel Grant* (US\$ 4k) 2014-2015
1. *Public Engagement Grant*, UIUC w./ Delcourt (PI) & Kedem. 2014-2015

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

12. *European Science Foundation short visit Grant* via “ITGP”. 2012-2013
11. *QGM 6 months research grant*, QGM, Aarhus and Oxford. 2012
10. *Clarendon Award* from Oxford University Press. 2008-2011
9. *New College Scholarship*, for DPhil. at New College, Oxford University. 2008-2011
8. *Joaquín V González Prize*, Universidad Nacional de La Plata. Argentina. 2009
7. *National Government* and *Santander Bank* prizes to best undergrad, Argentina. 2009
6. *Argentinian Mathematical Olympiads*, 3rd place, w/ R. Lafuente (\times 2) 2007-08
5. *Two month Summer Scholarship*, IMPA, Rio de Janeiro, Brasil. (\times 3) 2006-08

INTERNATIONAL
RESEARCH
MEETINGS
ORGANIZED
SINCE 2014

35. **Co-Organizer**, with Fredrickson, Mazzeo, Mrowka and Walposki Fall 2022
“Analytic and geometric aspects of gauge theory”, 1-semester program. MSRI, USA.
34. **Co-Organizer**, with Lara Anderson and Casey Kelleher August 2022
“Connections for Women Workshop”, UIC, USA
33. **Co-Organizer**, with Brian Collier June 2022
“Geometry (re)United”, UIC, USA.
32. **Co-Organizer**, international conference in Sir Michael Atiyah’s memory September 2021
“Unity of Mathematics”, Newton Institute, Cambridge, UK
31. **Co-Organizer**, w/ James Unwin. Second in a series of workshops “SIDE Math”. June 2021
“Selected Interdisciplinary Directions of Entertaining Mathematics 2021”, UIC, USA.
30. **Co-Organizer**, w/ James Unwin. First in a series of workshops “SIDE Math”. June 2020
“Selected Interdisciplinary Directions of Entertaining Mathematics 2020”, UIC, USA.
29. **Co-Organizer**, w/ Athreya, Bradlow, Gukov, Neitzke, Zorich, Weitz-S. November 2019
“Holomorphic Differentials in Mathematics and Physics”, MSRI, USA.

28. **Co-Organizer**, with A. Mandini, M. Verbitsky, and A. Zorich. June 2019
[“Teichmüller Theory, Hyperbolicity and Dynamics”](#), IMPA, Brazil.
 27. **Co-Organizer (chair)**, with L. Anderson, T. Hausel, and R. Mazzeo. May 2019
[“Geometry and Physics of Higgs bundles”](#), Oberwolfach (MFO), Germany.
 26. **Co-Organizer** with L. Anderson, 1-semester program. Spring 2019
[“Geometry and Physics of Hitchin Systems”](#), SCGP, USA.
 25. **Co-Organizer (chair)** with L. Anderson. Fifth in a series of workshops. May 2019
[“Current trends in spectral data for Higgs bundle V”](#), SCGP, USA.
 24. **Co-Organizer (chair)** with L. Anderson, R. Mazzeo, and T. Pantev. March 2019
[“Challenges at the Interface of Hitchin Systems and String Theory”](#), SCGP, USA.
 23. **Co-Organizer (chair)**, with R. Arroyo, B. Davison, M. Logares. December 2018
[“Current Trends on Hitchin Systems”](#), UBA, Argentina.
 22. **Organizer**, Fourth of a series of Two-day workshops. November 2018
[“Current trends in spectral data for Higgs bundle IV”](#), Oxford, UK.
 21. **Organizer**, Third of a series of Two-day workshops. November 2017
[“Current trends in spectral data for Higgs bundle III”](#), UIC, USA.
 20. **Co-Organizer (chair)**, with L.B. Anderson, J.M. Esole and L. Fredrickson October 2017
[“Singular Geometry and Higgs Bundles in String Theory”](#), AIM Workshop.
 19. **Co-Organizer** with Florent Schaffhauser and Richard Wentworth July 2017
[“Geometry and Physics of Higgs bundles”](#). Special Session, MCA2017, Canada.
 18. **Co-Organizer (chair)**, with B. Collier and G. Daskalopoulos May 2017
[“Geometry and Physics of Augmented Bundles”](#). Allerton, Illinois, USA.
 17. **Co-Organizer**, with D. Dumas, A. Furman, D. Groves, and K. Whyte February 2017
[“Chicago Action Now II”](#), UIC, USA.
 16. **Co-Organizer** with Bernardo Uribe et. al. July 2016
[“Fifth Latin American Congress of Mathematics”](#), Barranquilla, Colombia.
 15. **Co-Organizer** with Florent Schaffhauser and Richard Wentworth. July 2016
[“Higgs bundles and real character varieties”](#), Special Session, CLAM V, Colombia.
 14. **Co-Organizer (chair)**, with L. B. Anderson, D. Baraglia and V. Shende June 2016
[“New perspectives on Higgs bundles, branes and quantization”](#), SCGP, USA.
 13. **Co-Organizer (chair)**, with Lara B. Anderson June 2016
[“Current trends on spectral data for Higgs bundle II”](#), SCGP, USA.
 12. **Co-Organizer (chair)**, with J. Andersen, D. Baraglia, P. Boalch September 2015
[“Spectral data for Higgs bundles”](#), AIM Workshop.
 11. **Organizer**, Weekend workshop. October 2015
[“Current trends on spectral data for Higgs bundles I”](#), AIM, USA.
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12. **Co-Organizer**. UIC, USA. with Ross, Sinapova, Perkins, et. al. October 2021
[“GROW 2021: Graduate Research Opportunities for Women”](#).
 11. **Co-Organizer**. UChicago, USA. with Corlette, Masur, May, Calegari, et. al. October 2020
[“GROW 2020: Graduate Research Opportunities for Women”](#).
 10. **Co-Organizer (chair)** with L. Anderson, S. Katz and J. Teschner. May 2019
[“Graduate Summer School on Hitchin systems”](#), SCGP, USA.
 9. **Co-Organizer (chair)** with L. Anderson; Series of Two-day workshops. March 2019
[“Workshop on the geometry and physics of Higgs bundles IV”](#). SCGP, USA.
 8. **Co-Organizer**, with Steve Rayan. Prince Albert National Park, Canada. August 2018
[“Geometry and Physics of Gauge Theories”](#).
 7. **Organizer**, Graduate students’ workshop. UIC, USA. June 2018
[“RTG Workshop on the geometry and physics of Higgs bundles III”](#).
 6. **Organizer**, Graduate students’ workshop. UIC, USA. Nov. 2017
[“RTG Workshop on the geometry and physics of Higgs bundles II”](#).

MEETINGS
ORGANIZED
FOR GRADUATE
STUDENTS
AND POST-DOCS

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

MINI-COURSES

10. *Lecture Series at Summer School in Amherst*, Amherst, USA. summer 2022
 3 Hrs - Lectures on Higgs bundles for graduate students and post-docs.
9. *Undergraduate geometry & topology workshop*, Notre Dame. summer 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. August 2017
 3 Hrs - Lectures on Higgs bundles intended for ~ 100 participants.
6. *Summer program for undergraduate women*, UBC, Vancouver, Canada. August 2016
 16 Hrs - Lectures on Knot theory intended for undergraduate students.
5. *School on Higgs bundles*, ICTS, Bangalore, India. March 2016
 4 Hrs - Lectures on Higgs bundles intended for graduate students and faculty.
4. *Pohang Mathematics Institute*, Pohang, Korea. November 2014
 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty.
3. *Summer School on the moduli space of Higgs bundles*, NUS, Singapore. July 2014
 2 Hrs - Lectures on Higgs bundles.
2. *University of California at Davis*, California, USA. January 2014
 3 Hrs - Lectures on Higgs bundles intended for graduate students and faculty.
1. *Faculté des Sciences d’Orsay*, Université Paris-Sud, France April 2013
 2 Hrs - Lectures on Higgs bundles intended for undergraduate and graduate students.

COLLOQUIA AND PLENARY TALKS (*)

25. [YSP at UIC](#) *, Chicago, USA. June 2021
24. [Real Sociedad Matemática Española](#) *, Spain (Online). May 2021
23. [Cibercoloquio Latinoamericano de Matemáticas](#), Brazil (Online). April 2021
22. [Unión Matemática Argentina](#) *, Annual meeting, Argentina (online). September 2020
21. *University of Illinois at Chicago*, USA. March 2020
20. *Rutgers University - Newark Campus*, USA. April 2019
19. *Stony Brook University*, *Stony Brook*, USA. March 2019
18. *Simons Center for Geometry and Physics*, *Stony Brook*, USA. February 2019
17. [Iberoamerican Congress on Geometry](#) *, *Valladolid*, Spain. January 2018
16. *Northeastern University*, *Boston*, USA. January 2018
15. *University of Utah*, *Salt Lake City*, USA. January 2018
14. *University of Washington*, *Seattle*, USA. January 2018
13. *University of Notre Dame*, *South Bend*, USA. January 2018
12. *Center for Mathematical Physics*, *Hamburg*, Germany. June 2017
11. *Universidad Nacional de La Plata*, *Argentina*. May 2017
10. *Indiana University-Purdue University Indianapolis*, USA. November 2016
9. [String-Maths 2016](#) *, *Collège de France*, *Paris*, France. July 2016
8. *University of Illinois at Chicago*, *Chicago*, USA. March 2016

7. <i>University of North Carolina at Chapel Hill</i> , USA.	January 2015
6. <i>University of Boston</i> , Massachusetts, USA.	January 2015
5. <i>University of Minnesota</i> , Minneapolis, USA.	January 2015
4. <i>Purdue University</i> , West Lafayette, USA.	December 2014
3. <i>University of Illinois at Chicago</i> , Chicago, USA.	December 2014
2. <i>Boston College</i> , Boston, USA.	November 2014
1. <i>Pohang Mathematics Institute</i> , Pohang, Korea.	November 2014

CONFERENCE
AND WORKSHOP
TALKS:
LIST SINCE 2012
(5 DURING
2009-2011)

45. <i>Mirror symmetry in Latin America</i> , (Online).	July 2021
44. <i>OLGA 2021 – Oxford-London Gauge Assembly</i> , (Online) Oxford, UK.	June 2021
43. <i>Women at the intersection of math and theoretical physics</i> , (Online) Canada.	Feb. 2021
42. <i>XII Festival de Matemática</i> , (online) Argentina.	September 2020
41. <i>Qolloquium: Quivers, Representations, Resolutions</i> , (online) Canada.	June 2020
40. <i>Higgs bundles & related topics</i> , (online) Toronto, Canada.	May 2020
39. <i>Connections for Women: Holomorphic Differentials</i> , MSRI, USA.	August 2019
38. <i>2019 Workshop by Moira Chas</i> , Stony Brook, USA.	June 2019
37. <i>Holomorphic Differentials in Mathematics and Physics</i> , SCGP, USA.	February 2019
36. <i>RTG Workshop on the Geometry and Physics of Higgs bundles III</i> , UIC, USA.	June 2018
35. <i>Southeastern regional mathematical string theory meeting</i> , Duke University, USA.	April 2018
34. <i>The Analysis of Gauge-Theoretic Moduli Spaces</i> , Banff, Canada.	August 2017
33. <i>Harmonic Maps, Higgs Bundles and Integrable Systems</i> , Hannover, Germany.	August 2017
32. <i>GEOQUANT Conference</i> , Jutland, Denmark.	August 2017
31. <i>Topological and Algebraic Advances in QFT</i> , Varese, Italy.	August 2017
30. <i>Gauge theory and special geometry</i> (Special Session, MCA 2017), Canada.	July 2017
29. <i>Workshop on Moduli theory and Derived category</i> , Seoul, South Korea.	June 2017
28. <i>Higgs bundles and related topics</i> , Nice, France.	May 2017
27. <i>Mirror Symmetry Conference for Young Mathematicians</i> , Ann Arbor, USA.	May 2017
26. <i>British Isles Graduate Workshop Higgs bundles</i> , Isle of Wight, UK.	April 2017
25. <i>BUNDLES</i> , TIFR, Mumbai, India.	March 2017
24. <i>School on Geometry and Physics</i> , Bangalore, India.	March 2017
23. <i>Fifth Annual Midwest Women in Math. Symp.</i> (WIMS), Indianapolis, USA.	February 2017
22. <i>Encuentro Rioplatense de Álgebra y Geometría</i> , La Plata, Argentina.	December 2016
21. <i>Workshop on the Geometry and Physics of Higgs bundles I</i> , Chicago, USA.	October 2016
20. <i>Hitchin 70's birthday conference</i> , Madrid, Spain.	September 2016
19. <i>New Perspectives on Moduli Spaces in Gauge Theory</i> , NUS, Singapore.	August 2016
18. <i>Rep. Theory, Integrable Systems and QFT</i> , Northwestern University, USA.	April 2016
17. <i>Higgs Bundles in Geometry and Physics</i> , University of Heidelberg, Germany.	February 2016
16. <i>Higgs bundles and Hitchin system</i> , Centre Bernoulli, Switzerland.	January 2016
15. <i>Workshop on Holomorphic differentials</i> , Cape Town, South Africa.	January 2016
14. <i>50 years of the Narasimhan–Seshadri Theorem</i> , Chennai, India.	October 2015
13. <i>Spectral data for Higgs bundles</i> , AIM, San Jose, USA.	August 2015
12. <i>String Mathematics workshop</i> , Harvard University, USA.	August 2015
11. <i>Differentialgeometrie im Großen</i> , Oberwolfach, Germany.	July 2015
10. <i>2015 Joint International Meeting with the AMS</i> , Porto, Portugal.	June 2015
9. <i>Langlands workshop</i> , UIUC, USA.	November 2014
8. <i>Geometric structures and representation varieties</i> , SNU Seoul, Korea.	November 2014
7. <i>Modern trends in Gromov-Witten theory</i> , Hannover, Germany.	September 2014
6. <i>Workshop on the moduli space of Higgs bundles</i> , NUS, Singapore.	July 2014
5. <i>Workshop on the Geometry and Physics of Moduli Spaces</i> , Miraflores, Spain.	June 2014

SEMINARS
LIST SINCE 2012
(3 DURING
2009-2011)

4. <i>Character Varieties & Geometric Structures</i> , Howard University, USA.	December 2013
3. <i>9th International ISAAC Congress</i> , Krakow, Poland.	August 2013
2. <i>Topology of moduli spaces of representations</i> , Miraflores, Spain.	March 2013
1. <i>Workshop on Geometry of Surface Group Representations</i> , CRM, Spain.	May 2012
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55. <i>ZAG seminar</i> , (Online).	December 2021
54. <i>Geometry Seminar</i> , (Online) Lisbon, Portugal.	April 2021
53. <i>LAGOON: Leicester Algebra and Geometry Open ONline Seminar</i> , (Online) UK.	July 2020
52. <i>Algebraic geometry seminar</i> , Stony Brook University, USA.	May 2019
51. <i>Geometry and Physics</i> , Rutgers New Brunswick, USA.	April 2019
50. <i>Algebraic geometry seminar</i> , Imperial College, UK.	November 2018
49. <i>Algebraic geometry seminar</i> , University of Oxford, UK.	November 2018
48. <i>String Theory Seminar</i> , University of Oxford, UK.	October 2018
47. <i>Mathematical seminar/interview</i> , University of Oxford, UK.	May 2018
46. <i>Séminaire de Géométrie et Quantification</i> , Institut Henri Poincaré, France.	May 2018
45. <i>Geometry seminar</i> , University College London/King's College London, UK.	April 2018
44. <i>DAMPT & DPMMS seminar/interview</i> , University of Cambridge, UK	March 2018
43. <i>Max Dehn Seminar</i> , University of Utah, USA	January 2018
42. <i>GEAR seminar</i> , University of Illinois at Urbana Champaign, USA.	November 2017
41. <i>Felix Klein seminar</i> , University of Notre Dame, USA.	November 2017
40. ($\times 2$) <i>Geometry Seminar</i> , ITS, Vienna, Austria.	October 2017
39. <i>Mathematical Physics Seminar</i> , University of Heidelberg, Germany.	October 2017
38. ($\times 2$) <i>Higher Differential Geometry seminar</i> , MPI, Bonn, Germany.	June 2014, Oct. 2017
37. <i>Algebraic Geometry Seminar</i> , FU Berlin, Germany.	July 2017
36. <i>Mathematical Physics Seminar</i> , IPMU, Japan.	June 2017
35. <i>Topology Seminar</i> , Northwestern University, USA.	May 2017
34. <i>Mathematical Physics Seminar</i> , IMPA, Rio de Janeiro, Brazil.	February 2017
33. <i>Geometric Analysis Seminar</i> , University of Chicago, USA.	January 2017
32. <i>Mathematical Physics Seminar</i> , Perdue University, West Lafayette, USA.	January 2017
31. <i>Algebraic Geometry Seminar</i> , University of Chicago, USA.	January 2017
30. ($\times 2$) <i>Algebraic Geometry Seminar</i> , U. of Buenos Aires, Argentina.	June 2012, May 2016
29. <i>Geometry Seminar</i> , University of Texas at Austin, USA.	April 2016
28. <i>Geometry and Analysis Seminar</i> , University of Oxford, UK.	January 2016
27. ($\times 2$) <i>Geometry seminar</i> , EPFL, Lausanne, Switzerland.	June 2015
26. <i>Geometry, Topology and Analysis seminar</i> , University of Sydney, Australia.	May 2015
25. <i>Differential Geometry Seminar</i> , Harvard University, USA.	March 2015
24. <i>Geometry Seminar</i> , UNC at Chapel Hill, USA.	January 2015
23. <i>Geometry Seminar</i> , University of Minnesota, Minneapolis, USA.	January 2015
22. <i>Algebraic Geometry Seminar</i> , CalTech, Pasadena, USA.	November 2014
21. <i>Mathematical Physics Seminar</i> , Physics Department, UIUC.	October 2014
20. <i>String theory/Alg.-Geometry seminar</i> , Physics Department, Virginia Tech.	September 2014
19. <i>Hypatian Seminar</i> , UCSB, California, USA.	June 2014
18. <i>String Theory Journal Club</i> , Universidad Nacional de La Plata, Argentina.	May 2014

17. ($\times 2$) *Geometry and Physics Seminar*, Northwestern University, Evanston, USA. April 2014
16. *Geometry and Physics Seminar*, Boston University, Boston, USA. April 2014
15. *Math-Physics joint seminar*, University of Pennsylvania, Philadelphia, USA. March 2014
14. *Geometry and physics Seminar*, CalTech, Pasadena, USA. February 2014
13. *Symplectic and Poisson Seminar*, UIUC, Illinois, USA. February 2014
12. *Algebraic Geometry seminar*, UIUC, USA. September 2013
11. *School of Mathematics*, University of Adelaide, Australia. June 2013
10. *Mathematics Department*, NUS, Singapore. May 2013
9. ($\times 2$) *Geometry Seminar*, Heidelberg University, Germany. Nov. 2012, Dec. 2012
8. *Seminario de Geometría*, U. Politecnica de Catalunya, Barcelona, Spain. May 2012
7. *Seminários em Geometria, Topologia e Física-Matemática*, U do Minho, Portugal. April 2012

RESEARCH VISITS
OF 2 WEEKS OR
LONGER SINCE
GRADUATION

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|---|------------------|
| 16. Mathematical institute, University of Oxford, UK. (6 months) | 2023 |
| 15. Mathematical Sciences Research Institute (MSRI), Berkeley, USA (6 months) | 2022 |
| 14. Research in pairs stay (IHP), Paris, France (1 month) | 2022 |
| 13. Mathematical Sciences Research Institute (MSRI), Berkeley, USA (5 months) | 2019 |
| 12. Freie Universität Berlin, Germany. (2 months) | 2019 |
| 11. Simons Center for Geometry and Physics, Stony Brook, USA. (5 months) | 2019 |
| 10. New College, University of Oxford, UK. (3 months) | 2018 |
| 9. Freie Universität Berlin, Germany. (5 months) | 2017 |
| 8. IMPA, Rio de Janeiro, Brazil. (4.5 months) | 2006, 2008, 2017 |
| 7. National University of Singapore, Singapore. (2.5 months) | 2013, 2014, 2016 |
| 6. IHP, Paris, France. (2 months) | 2012, 2016 |
| 5. LMU München, Germany. (2 weeks) | 2016 |
| 4. Mathematical Institute, University of Oxford, UK. (2 weeks) | 2013, 2016 |
| 3. EPFL, Switzerland. (2 weeks) | 2016 |
| 2. CERN, Switzerland. (2 weeks) | 2015 |
| 1. University of Adelaide, Australia. (3 weeks) | 2013, 2014, 2015 |
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EDITORIAL
BOARDS

- **Editorial Board Member**, *Geometriae Dedicata*. since 2019
 - **Guest Editor**. SIGMA special issue "*Geometry and Physics of Hitchin systems*". 2017-2019
 - **Editorial Board**. New Collection, University of Oxford, ISSN : 1757-2541. 2010-2011
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UNIVERSITY AND
DEPARTMENT
SERVICE AT UIC

- *Co-Organiser, Geometry, Topology and Dynamics seminar*. since 2016
 - Research Assistant Professor, Bridge to the Faculty Search Committee ($\times 1$). 2019-2020
 - Research Assistant Professor Search Committee ($\times 4$). 2015-2016, 2017-2020
 - Admissions, Fellowships, Assistantships committee ($\times 4$) 2015-2019
 - Salary Committee ($\times 1$). 2017-2018
 - Visitors committee ($\times 2$). 2016-2018
 - Faculty Search Committee ($\times 1$). 2016-2017
 - Mathematics Club advisor ($\times 1$). 2015-2016
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OTHER
PROFESSIONAL
SERVICE ACTIVITIES

- **Alexander von Humboldt Foundation**, external reviewer. *since* 2020
- **National Science Centre, Poland**, proposal reviewer. 2020
- **Behavioural Science Journal Referee** (accept duties \sim 2 times per year). *since* 2020
Journal of Medical Internet Research; Open Psychology Journal;
- **NSF Reviewer** (\times 4). 2016, 2017, 2019, 2021
- **WMC SheSource Expert**, for [Women's Media Center \(WMC\)](#). *since* 2017
- **MathSciNet Reviewer** (accept duties \sim 2 times per year). *since* 2014
- **Mathematics Journal Referee** (accept duties \sim 5 times per year). *since* 2012
Duke; Q. J. Math; J. Top.;
Israel J. Math; Adv. Geo.; Diff. Geom. and its App.;
Commun. Math. Phys.; Pac. J. Math.; SIGMA;
Int. J. Math.; Revista Mat. Comp.; Annals of he ENS;
PRIMS; Geo. Ded.; Physical Review E.
Int. Math. R. Not.; J. Pure Appl. Algebra;
J. Geom. Phys.; J. LMS;
- **Co-Organizer of Research seminars**, University of Heidelberg, Germany. 2012-2013

OUTREACH
ACTIVITIES

- **Speaker:** *Guidepost Montessori at Magnificent Mile*, Book reading. June 2021
- **Speaker:** *Women in STEM club*, (career talk) University of Chicago Lab Schools. 2021
- **Speaker:** *New College*, (career talk) University of Oxford. 2021
- **Speaker:** *Stanford University Math Organization*, (career talk) Stanford University. 2021
- **Speaker:** *AWM Chapter*, (career talk) University of Illinois at Chicago. 2021
- **Speaker:** *SWIMM (Stanford Women in Math Mentoring)*, (career talk) Stanford. 2021
- **Co-Organizer** (w. [James Unwin](#)): [SIDE MATH 2020](#) and [SIDE MATH 2021](#) 2020-2021
- **Co-Organizer** (w. [James Unwin](#)): *1st, 2nd, 3rd, 4th, 5th* Sonia day at UIC, 2015-2019
- **Connections for Women Panelist**, MSRI, Berkeley, USA. 2019
- **Volunteer:** Sonia Maths day for Girls on Topology and Knots, UIUC, USA. April 2015
- **Volunteer:** *UIUC GEMS program* Nov. 2013, Oct. 2014, Feb. 2015
- **Co-Organizer** (with Jayadev Athreya et al.) [MoSAIC Festival](#), UIUC. November 2014
- **Panel speaker:** *Graduate College Career Development*, UIUC, USA October 2014
- **Lecturer:** *Urbana High School advanced math class on Slide Rules*. October 2013
- **Teacher:** *Garden Hills Elementary School first grade classes on symmetry*. September 2013

UNIVERSITY
LARGE CLASS
TEACHING

- University Instructor**, University of Illinois at Chicago, USA
- [Math 300: Writing for Mathematics](#). (\times 12) Spring 2020 & Fall 2020, 2021
 - [Math 215: Introduction to advanced mathematics](#). (\times 4) Fall 2015, 2016 & Spring 2018
 - [Math 596: Independent study](#). (\times 6) (*graduate course*) Fall 2015, 2016, 2017 & Spring 2017
 - [Math 547: Algebraic Topology I](#). (\times 1) (*graduate course*) Fall 2016
 - [Math 549: Differentiable Manifolds I](#). (\times 2) (*graduate course*) Fall 2015 & Spring 2017
- University Instructor**, University of Illinois at Urbana-Champaign, USA
- [Math 348: Fundamental Mathematics](#). (\times 4) Fall 2013 & Spring 2014, 2015
 - [Math 347: Fundamental Mathematics](#). (\times 2) Spring 2014, 2015

UNIVERSITY 2 TO 1 TEACHING	College tutorials , University of Oxford, UK. 2010-2012 As a <i>Stipendiary Lecturer in Mathematics</i> for Trinity College and Magdalen College As a <i>Retained Lecturer</i> for Hertford College As a <i>College Tutor</i> for New College, St. Peter's College, Lincoln College and Hertford College. <ul style="list-style-type: none"> • <i>3D Calculus; Calculus of Variations; Linear Algebra I,II; Groups, Rings and Fields.</i>
TEACHING ASSISTANTSHIPS	Class Tutor , Mathematical Institute, Oxford, UK. 2010 <ul style="list-style-type: none"> • <i>B9. Algebraic Number Theory</i> (& Revision Classes). Teaching Assistant , Mathematical Institute, University of Oxford. 2009-2010 <ul style="list-style-type: none"> • <i>B9. Algebraic Number Theory; B3. Geometry of Surfaces; C9.1 Elliptic Curves.</i> Teaching Assistant , National University of La Plata, Argentina. 2006-2008 <ul style="list-style-type: none"> • <i>Analysis</i> (Mathematics dept.); <i>Probabilities and Statistics</i> (Engineering dept.).
INTERNATIONAL PROGRAMS & HIGH SCHOOL TEACHING	OPUS Tutor & WISC Tutor , University of Oxford Programs . 2010-2012 CIE Tutor & Summer Lecturer , Center for International Education , Oxford. 2009-2011 Junior Lecturer , Colegio Nacional Rafael Hernandez (High School). La Plata. Argentina. 2007 Tutor and Mentor online , Tutor.com , New York City, US. (through Latinhire). 2005-2008
ADDITIONAL EXPERIENCE	<ul style="list-style-type: none"> • Spanish: <i>Native</i>; English and French: <i>Fluent</i>; German: <i>A2</i> • 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
IN THE MEDIA	<ul style="list-style-type: none"> • About math life / women in math / activities UIC Today Title: “UIC mathematician earns 2021 Simons Fellowship”. 2021 Wiaarkhu Magazine “Mathematics during the pandemic” about SIDE Mathe 2020 2020 Featured in the cover of the “Notices of the AMS” Volume 67, Number 5. 2020 Interview for “2020 Lathisms: Latinxs and Hispanics in the math...”. 2020 Interview about organizing workshops at MFO, MFO Annual report. 2019 • About Gossip spread – A trust model for spreading of gossip done with R. Bhansali. ZAP.aeiou, Title: “Cientistas querem saber tudo sobre os mexericos” 2019 UIC News, Title: “Study explores how gossip spreads in social networks”. 2019 Phys.org, Title: “Study explores how gossip spreads in social networks”. 2019 Tech Explorist, Title: “A new study explores how gossip spreads in social networks”. 2019 NewsWise, Title: “Study explores how gossip spreads in social networks”. 2019 • About Phone-Walkers – behavioural study done with James Unwin. The Atlantic, Title: “The Benefits of a Short Attention Span”. 2018 The Chicago Tribune, Title: “Study sheds light on why we walk ...”. 2018 The Süddeutsche Zeitung, Title: “Liebes Smartphone, lass mich niemals los!”. 2018 The Times of India, Title: “Study finds new human habit: Phone walking”. 2018 MIT Technology Reviews, Title: “Researchers wonder what it means ...”. 2018 Cronica Global, Title: “Por qué cada vez más mujeres s ...”. 2018 The Week, Title: “What do women want? Pockets!”. 2018 Co-Design, Title: “Study: We Never Stop Touching Our Phones...”. 2018 UIC LAS, Title: “Mathematics AP L. Schaposnik and Physics AP J. Unwin’s ...”. 2018 Workplace Insight, Title: “People like to hold on to their smartphones...”. 2018 Nextbigwhat, Title: “Would you hold a phone or hands?”. 2018

- [Xuehua - Taiwan](#), Title: “Even if you don’t use a mobile phone...”. 2018
- [Marketingoops - Thailand](#), Title: “Survey shows we can not stop catching mobile...”. 2018
- [Cromo - Uruguay](#), Title: “Quiénes son los paseadores de teléfonos”. 2018
- **About 2017 Siemens National Finalists I mentored.** – Through PRIMES-MIT
[Business Wire](#), Title: “Washington, California Students Win Regional Siemens...”. 2017
[Kusi News](#), Title: “Three San Diego students win scholarships ...”. 2017
- **About Sonia Kovalevsky Days** – outreach at UIC co-organized with [James Unwin](#).
[AWM Newsletter, Vol. 49, No. 5.](#), Title: “SKD, the potential to inspire”. 2019
[UIC News](#), Title: “Event helps girls see fun, practical side of math”. 2017
[AWM Newsletter, Vol. 46, No. 6.](#), Title: “Sonia Kovalevsky Days in Chicago”. 2016
- **About the Humboldt Fellowship** – about awards to [James Unwin](#) and myself.
[UIC Today](#), Title: “UIC mathematician, physicist named Humboldt Fellows”. 2017
- **About workshops co-organized** – Research centers and institutes.
[SCGP News - Spring 2016](#), Title: “New perspectives on Higgs bundles...”. 2016
[AIMatters 2016](#), Title: “Bridges between worlds, from past to present”. 2016
- **About being top undergraduate student** – Argentinian newspapers.
[La Nación](#), Title: “Disfruta de la matemática una chica 10, becada en Oxford”. 2009
[Clarín](#), Title: “Cum Laude. Laura Schaposnik – UNLP - Oxford”. 2009
[El Día](#), Title: “Promedio perfecto en Ciencias Exactas”. 2009

REFERENCES

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| <ul style="list-style-type: none"> • Prof. Steven Bradlow (UIUC). • Prof. David Dumas (UIC, Teaching). • Prof. Victor Flynn (Oxford, Teaching). • Prof. Sergei Gukov (Caltech). • Prof. Nigel Hitchin (Oxford). • Prof. Sheldon Katz (UIUC). | <ul style="list-style-type: none"> • Prof. Rafe Mazzeo (Stanford). • Prof. Motohico Mulase (UC Davis). • Prof. Bill Goldman (Maryland). • Prof. Richard Wentworth (Maryland). • Prof. Anna Wienhard (Heidelberg). |
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