

Ana Bălibanu

CONTACT	Harvard University Department of Mathematics 1 Oxford Street Cambridge, MA 02138 USA	ana@math.harvard.edu http://people.math.harvard.edu/~ana
APPOINTMENTS	Harvard University Benjamin Peirce Fellow NSF Postdoctoral Fellow (Sponsor: Dennis Gaitsgory)	July 2017–present July 2019–present
EDUCATION	University of Chicago Ph.D. in Mathematics (Advisor: Victor Ginzburg) M.S. in Mathematics California Institute of Technology B.S. in Mathematics with Honors	June 2017 June 2013 June 2011
PUBLICATIONS AND PREPRINTS	<i>Reduction of Dirac realizations</i> (with M. Mayrand) Preprint available upon request. <i>Steinberg slices and group-valued moment maps</i> arXiv:2103.14704. First revision submitted to Adv. Math. <i>Perverse sheaves and the cohomology of regular Hessenberg varieties</i> (with P. Crooks) arXiv:2004.07970. (submitted) <i>The partial compactification of the universal centralizer</i> arXiv:1710.06327. (submitted) <i>The Peterson variety and the wonderful compactification</i> Represent. Theory 21:132–150, 2017.	
AWARDS, FELLOWSHIPS, AND GRANTS	2019–2022 NSF Mathematical Sciences Postdoctoral Research Fellowship. (DMS–1902921, 150 000 USD) 2021 NSF Conference Grant “Lie theory and Poisson geometry.” (DMS–2134169, 20 000 USD, sole PI) 2017–2020 Certificates of Teaching Excellence, Harvard University. (six awards) 2015 Lawrence and Josephine Graves Teaching Award, University of Chicago. 2011–2012 GAANN Fellowship, University of Chicago.	
CONFERENCE AND SEMINAR TALKS	July 2022 Minicourse at Poisson 2022 Summer School, Barcelona, Spain. June 2022 Special Session on “Geometric and Categorical Aspects of Representation Theory and Related Topics,” AWM Research Symposium. April 2022 Geometry, symmetry and physics seminar, Yale University. April 2022 “Gone Fishing” Poisson geometry conference, Georgia Southern University.. April 2022 Algebraic geometry seminar, Harvard University.	

March 2022	Algebraic geometry seminar, Stanford University.
October 2021	Algebraic geometry seminar, Washington University St. Louis.
October 2021	“Compactifications, Configurations, and Cohomology,” Northeastern University
June 2021	Global Poisson Geometry Webinar.
May 2021	Special Session on “Categorical and Combinatorial Methods in Representation Theory and Related Topics,” AMS Spring Western Sectional Meeting.
March 2021	Algebra seminar, Virginia Tech.
December 2020	Geometry in Algebra and Algebra in Geometry, UFF.
December 2020	Session on “The Algebraic Geometry of Integrable Systems,” CMS Winter Meeting, McGill University.
November 2020	Geometric representation theory seminar, University of Toronto.
September 2020	“Friday Fish” seminar, Utrecht University.
June 2020	Geometric representation theory twinned conference, Perimeter Institute and MPI Bonn.
June 2020	Lie theory and integrable systems in symplectic and Poisson geometry, Fields Institute.
April 2020	Workshop on Lie Groups and Index Theory, Fields Institute. (<i>cancelled due to Covid-19</i>)
March 2020	Geometric Structures Laboratory, Fields Institute. (<i>cancelled due to Covid-19</i>)
December 2019	International conference on Poisson geometry, IMPA.
April 2019	“Pick-My-Brain” seminar, Northeastern University.
April 2019	Symplectic Representation Theory, CIRM.
January 2019	Geometry and algebra, geometry and analysis seminar, Utrecht University.
September 2018	Women@AGNES, Brown University.
June 2018	International conference on geometric representation theory and symplectic varieties, University of Notre Dame.
April 2018	Representation theory seminar, UMass Amherst.
April 2018	Infinite-dimensional algebra seminar, MIT.
February 2018	Mathematical physics seminar, Perimeter Institute.
December 2017	Transformation Groups 2017, Moscow, Russia.
November 2017	Geometry, physics, and representation theory seminar, Northeastern University.
November 2017	Symplectic and Poisson geometry seminar, UIUC.
October 2017	Geometric representation theory seminar, MIT.
October 2017	Geometry and physics seminar, Boston University.
May 2017	“Gone Fishing” Poisson geometry conference, University of Notre Dame.
December 2016	Integrability and representation theory seminar, UIUC.
October 2016	Algebraic geometry seminar, University of Notre Dame.
August 2016	ICRA 2016, Syracuse University.

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CONFERENCES AND SEMINARS (CO)ORGANIZED

2017–present	Open Neighborhood Seminar, undergraduate colloquium series, Harvard University.
January 2022	Lie theory and Poisson geometry, conference, CIRM.
May 2021	Special Session on “Geometric and Categorical Methods in Representation Theory,” AMS Spring Western Sectional Meeting.
Spring 2018	Snapshots of Math at Harvard, research symposium, Harvard University.
2014–2017	Representation theory student seminar, University of Chicago.
Fall 2012	Geometric invariant theory learning seminar, University of Chicago.

TEACHING EXPERIENCE

At Harvard:

2021–2022	Topological spaces and the fundamental group (Math 131) Complex analysis (Math 113)
2020–2021	Sets, groups, and topology (Math 101)
2018–2019	Theory of groups and vector spaces (Math 122) Graduate algebra (Math 221) Linear algebra and differential equations (Math 21b)
2017–2018	Number theory (Math 124) Linear algebra and differential equations (Math 21b) Representation theory, geometry, and the wonderful compactification (graduate topics course) (Math 279)

At the University of Chicago:

2016–2017	Calculus III (Math 153) SESAME Algebra I (Math 509) Honors calculus III IBL (Math 163)
2015–2016	Honors calculus I IBL (Math 161) Honors calculus II IBL (Math 162) Honors calculus III IBL (Math 163) SESAME Algebra I (Math 509)
2014–2015	Calculus III (Math 153) Geometry IBL (Math 176) SESAME History of mathematics (Math 510)
2013–2014	Calculus I (Math 151) Calculus II (Math 152) Calculus III (Math 153)

SERVICE TO THE DEPARTMENT

At Harvard:

2021–2022	Intensive undergraduate advising committee Qualifying exam committee
2020–2021	Assistant director of graduate studies Graduate admissions committee
2018–2019	Intensive undergraduate advising committee
2017–2018	Graduate admissions committee

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At the University of Chicago:

Fall 2013 Organizer for the Warm-Up Program (WOMP) for incoming first-year graduate students

OTHER ACTIVITIES

May 2021 Volunteer organizational team for the Women and Math Program in Representation Theory: Categories and Combinatorics, IAS.

Winter 2014 Proofreader for the book “A concise course in complex analysis and Riemann surfaces” by Wilhelm Schlag, University of Chicago.

Spring 2013 Mentor in the Directed Reading Program, University of Chicago.

CITIZENSHIP

Romania, USA.

LANGUAGES

Romanian (native), English (nativelike), French (intermediate).