Sayanta Mandal

Contact Information	Department of Mathematics, Statistics and Computer Science (M/C 249) University of Illinois at Chicago 851 S Morgan St. Chicago, IL 60607-7045
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Education	University of Illinois at Chicago, Department of Mathematics Ph.D., May 2020, Advisor - Prof. Izzet Coskun.
	Chennai Mathematical Institute, Department of Mathematics B.Sc., 2013, M.Sc. 2015, M.Sc. Advisor - Prof. Jaya N. Iyer.
Research	I am an algebraic geometer specializing in the study of the moduli space of sheaves over projective spaces and Grassmannians.
Papers and Preprints	 Non-globally generated bundles on curves, with John Kopper, arXiv:2003.10890. On the stabilization of the Betti numbers for the moduli space of sheaves on P², arXiv:1908.09977. On the loci of morphisms from P¹ to G(r, n) with fixed splitting type of the restricted universal sub-bundle or quotient bundle, arXiv:1908.09978.
Teaching Experience	 Grader for Math 310 (Applied Linear Algebra), Spring 2019. Teaching Assistant for Math 181 (Calculus II), Spring 2016 - Spring 2019 (16 sections). Teaching Assistant for Math 125 (Linear Algebra for Business), Fall 2015.
Talks	 Speaker at the Graduate Algebraic Geometry Seminar, University of Illinois at Chicago, Spring 2016 - Fall 2018. Topics: Normal bundles of rational curves in projective space, Fall 2018. Hypersurfaces with too many rational curves, Spring 2018. On stability of the syzygy bundle, Fall 2017. Cokernel bundles and Fibonacci bundles, Spring 2017. Construction of the Hilbert and Quot scheme, Fall 2016. The Grothendieck-Riemann-Roch theorem, Spring 2016. Rational curves and Grassmannian, Algebraic Geometry Seminar, University of Notre Dame, Fall 2019. Betti numbers of the moduli space of sheaves on P², FRG Workshop on Stability, Moduli Spaces and Applications, University of Illinois at Chicago, Fall 2019. Betti numbers of the moduli space of sheaves on the projective plane, Enumerative Geometry Seminar, University of California San Diego, Spring 2020.
Organization	• Member of organizing committee for the Midwest Algebraic Geometry Graduate Con- ference, Summer 2018 and Spring 2019.