

Contact Information	Indian Institute of Technology, Gandhinagar Palaj, Gandhinagar India, 382355(Pin code)	Homepage: webpage Linkedin: www.linkedin.com/in/ayush-jaiswal ✉ E-mail: ayush.jaiswal@iitgn.ac.in ✉ E-mail: jaiswalapplication@gmail.com
Research Background	Algebraic Geometry More specifically, I am studying parabolic bundles and d -holomorphic bundles on Klein surfaces. I have described gauge theoretic quotients of certain space of connections on parabolic bundles on Klein surface as embedded in real points of moduli of parabolic bundles on compact Riemann surface. Presently, I am studying some invariants associated to moduli spaces. I am also exploring Tropical geometry.	
Education	Indian Institute of Technology, Gandhinagar(IITGn) , India 2017–2023 (expected) <ul style="list-style-type: none"> Ph.D. in Discipline of Mathematics, CPI: 7.94 – via 44 credits. <ul style="list-style-type: none"> Thesis: <i>On d-holomorphic connections and gauge theoretic aspects of parabolic bundles over Klein surface</i> Advisor: Prof. Sanjaykumar Amrutiya. Indian Institute of Technology, Kanpur(IITK) , India. 2013–2015 <ul style="list-style-type: none"> M.Sc., Mathematics. CPI: 7.2 – via 80 credits 	
Technical Skills	<ul style="list-style-type: none"> <i>Programming Languages</i>: C, Python <i>Technical Softwares</i>: MATLAB, Git-hub, Latex 	
Research Interests	Algebraic Geometry <ul style="list-style-type: none"> Parabolic bundles d-holomorphic bundles 	
Selected Publications/Preprints	1. Sanjay Amrutiya, Ayush Jaiswal, “ <i>On d-holomorphic connections</i> ”, arXiv preprint arXiv : 2208:04354; 2022. 2. Sanjay Amrutiya, Ayush Jaiswal, “ <i>A gauge theoretic aspects of parabolic bundles over Klein surfaces</i> ”, arXiv preprint arXiv : 2202:06210; 2022.	
Professional Achievements/Awards/Scholarships	<ul style="list-style-type: none"> Secured 2nd position(merit based) in during B.Sc.(IInd year) 2010–2011 <i>Joint Admission Test for Masters(JAM)</i> organised by <i>Indian Institute of Technology, Delhi(IITD)</i> 2013 <i>Graduate Aptitude Test for Engineering(GATE)</i> organised by <i>Indian Institute of Technology, Kanpur(IITK)</i> 2015 <i>Graduate Aptitude Test for Engineering(GATE)</i> organised by <i>Indian Institute of Science, Bangalore(IISC)</i> 2016 <i>Junior Research Fellow(JRF)</i> organised by <i>Council of Scientific and Industrial Research(CSIR)</i> 2015,2016 	

Workshops/ Conferences attended	<ul style="list-style-type: none"> • <i>Moduli of bundles and related structures</i> at ICTS, Bangalore, India. 10 February–14 February, 2020
	<ul style="list-style-type: none"> • Workshop on <i>Characteristic classes and cobordism</i> at IIT Bombay, Powai, Maharashtra, India. 4 March–15 March, 2019
	<ul style="list-style-type: none"> • AIS(Advanced Instructional School) on <i>Linear Algebraic Groups</i> at IIT Bombay, Powai, Maharashtra, India. 24 June–13 July 2019
	<ul style="list-style-type: none"> • AIC(Advanced Instructional Course) on <i>Commutative Algebra</i> in online mode. 2 January–2 May, 2021
	<ul style="list-style-type: none"> • AIS(Advanced Instructional School) on <i>Basic Algebraic Geometry</i> at IISER Pune, Pune, Maharashtra, India. 25 June–14 July, 2018
Delivered Talks/Poster Presentations	<ol style="list-style-type: none"> 1. On d-holomorphic connections(Talk), <i>Conference on Algebraic Geometry</i>, Harish Chandra Institute, Prayagraj, India. December 12-16, 2022.
	<ol style="list-style-type: none"> 2. On d-holomorphic connections(Poster presentation), <i>Vector bundles in Chennai</i>, Department of mathematics, IIT Madras, Chennai, India. February 6-11, 2023.
Teaching Experience	<ul style="list-style-type: none"> • Teaching Fellow for the course MA 101, Mathematics I(Real Analysis and Several Variable Calculus) at IIT Gandhinagar, Gujarat, India Autumn semester, 2017–2018 Instructors: Prof. Surjeet Kour, Prof. Jagmohan Tyagi
	<ul style="list-style-type: none"> • Graduate Teaching Fellow for the course MA 102, Mathematics II(Linear Algebra and Differential Equations) at IIT Gandhinagar, Gujarat, India Spring semester, 2018–2019 Instructors: Prof. Sanjaykumar Amrutiya, Prof. Indranath Sengupta
	<ul style="list-style-type: none"> • Graduate Teaching Fellow for the course MA 504, Linear Algebra at IIT Gandhinagar, Gujarat, India Autumn semester, 2019–2020 Instructors: Prof. Indranath Sengupta, Prof. V. D. Sharma
	<ul style="list-style-type: none"> • Graduate Teaching Fellow for the course MA 102, Mathematics II(Several Variable Calculus and Complex Analysis) at IIT Gandhinagar, Gujarat, India Spring semester, 2019–2020 Instructor: Prof. V. D. Sharma