Alejandro Ovalle

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Education	**10.2023 - Today.** *M.Sc., Mathematics: Algebra and Geometry, University of Bonn.* Thesis: "Enumerative geometry and Moduli spaces of sheaves on K3 surfaces". Supervised by Prof. Richard Thomas and Prof. Daniel Huybrechts
	10.2020 - 09.2023. *B.Sc., Mathematics, University of Bonn.* Thesis: "Formulae for smooth cubic surfaces: quadruples of points and twisted cubics". Supervised by Prof. Daniel Huybrechts and Dr. Gebhard Martin
	02.2014 - 12.2019. *B.Sc., Physics, Universidad Nacional de Colombia.* Thesis: "Gravity as a Chern-Simons theory in (2+1)-dimensions". Supervised by Prof. Eduardo Rodriguez
Research interests	Enumerative algebraic geometry and Moduli problems.
Teaching	**10.2024 - 03.2025.** Teaching Assistant: Algebraic geometry I, University of Bonn. Lecturer: Prof. Daniel Huybrechts.
	04.2024 - 09.2024. Teaching Assistant: Commutative algebra, University of Bonn. Lecturer: Prof. Daniel Huybrechts.
	04.2022 - 09.2022. Teaching Assistant: Linear Algebra I, University of Bonn. Lecturer: Dr. Thoralf Räsch.
	10.2021 - 03.2022. Teaching Assistant: Analysis I, University of Bonn. Lecturer: Prof. Karl-Theodor Sturm.
Seminar talks	Graduate Seminar of Master thesis, University of Bonn Talk: "Beauville-Mukai systems as Lagrangian fibrations"
	Reading Seminar on Moduli spaces of stable sheaves, University of Bonn Talk: "Smoothness and irreducibility of the Moduli spaces of stable sheaves"
	Graduate Seminar on Moduli spaces of K3 surfaces, University of Bonn Talk: "Deformations of K3 surfaces and local Torelli Theorem"
	Graduate Seminar on Perverse sheaves, University of Bonn Talk: "Constructible Sheaves"
	Graduate Seminar on 4-Manifolds, University of Bonn Talk: "Enriques-Kodaira classification of smooth complex surfaces"
Further academic activities	**10.2024 - 03.2025.** Organisation of Reading Seminar on Moduli spaces of Sheaves on K3 surfaces, University of Bonn (More information on my website)
	09.2024 - 09.2024. Trieste Algebraic Geometry Summer School - Tropical geometry and Moduli spaces of curves
Honors	**10.2023 - Today.** Scholarship for Master's program from the Friedrich-Ebert-Stiftung More information: https://www.fes.de/studienfoerderung
	12.2021 - 09.2023. Scholarship for Bachelor's program from the Friedrich-Ebert-Stiftung More information: https://www.fes.de/studienfoerderung
	12.2021 - Today. Honors Program, University of Bonn. More information: www.uni-bonn.de/de/studium/studienangebot/mehr/honors-program

Voluntary work	**05.2022 - 05.2023.** Voluntary work at the Friedrich-Ebert-Stiftung, Germany. Representative of the fund of education equity at FES
	02.2016 - 03.2021. Voluntary work at Fundación Aspirantes.org, Colombia. Tutor of mathematics and physics for economically disadvantaged teenagers
Further qualifications	**Languages:** Spanish (Native), English (C1), German (C1)