

# 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
- 02.2015 - 12.2019.** *B.Sc., Physics, Universidad Nacional de Colombia.*  
Thesis: "Gauge theories: An approach to gravity" supervised by Prof. Eduardo Rodríguez
- 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 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 program from the Friedrich-Ebert-Stiftung
- 12.2021 - 09.2023.** Scholarship for Bachelor program from the Friedrich-Ebert-Stiftung
- 12.2021 - Today.** Honors Program, University of Bonn
- 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)