

Alejandro Ovalle

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Education	<p>10.2023 - Today. <i>M.Sc., Mathematics: Algebra and Geometry, University of Bonn.</i> Thesis: "Enumerative geometry and Moduli spaces of sheaves on K3 surfaces" supervised by Prof. Richard Thomas and Prof. Daniel Huybrechts</p> <p>10.2020 - 09.2023. <i>B.Sc., Mathematics, University of Bonn.</i> Thesis: "Formulae for smooth cubic surfaces: quadruples of points and twisted cubics" supervised by Prof. Daniel Huybrechts and Dr. Gebhard Martin</p> <p>02.2015 - 12.2019. <i>B.Sc., Physics, Universidad Nacional de Colombia.</i> Thesis: "Gauge theories: An approach to gravity" supervised by Prof. Eduardo Rodriguez</p>
Research interests	Enumerative algebraic geometry and Moduli problems.
Teaching	<p>10.2024 - 03.2025. Teaching Assistant: Algebraic geometry I, University of Bonn</p> <p>04.2024 - 09.2024. Teaching Assistant: Commutative algebra, University of Bonn</p> <p>04.2022 - 09.2022. Teaching Assistant: Linear Algebra I, University of Bonn</p> <p>10.2021 - 03.2022. Teaching Assistant: Analysis I, University of Bonn</p>
Seminar talks	<p>Graduate Seminar on Moduli spaces of K3 surfaces, University of Bonn Talk: "Deformations of K3 surfaces and Local Torelli Theorem"</p> <p>Graduate Seminar on Perverse Sheaves, University of Bonn Talk: "Constructible Sheaves"</p> <p>Graduate Seminar on 4-Manifolds, University of Bonn Talk: "Enriques-Kodaira classification of smooth complex surfaces"</p>
Further academic activities	<p>10.2024 - 03.2025. Organisation of Reading Seminar on Moduli spaces of Sheaves on K3 surfaces, University of Bonn</p> <p>09.2024 - 09.2024. Trieste Algebraic Geometry Summer School - Tropical geometry and Moduli spaces of curves</p>
Honors	<p>10.2023 - Today. Scholarship for Master program from the Friedrich-Ebert-Stiftung</p> <p>12.2021 - 09.2023. Scholarship for Bachelor program from the Friedrich-Ebert-Stiftung</p> <p>12.2021 - Today. Honors Program, University of Bonn</p>
Voluntary work	<p>05.2022 - 05.2023. Voluntary work at the Friedrich-Ebert-Stiftung, Germany. Representative of the fund of education equity at FES</p> <p>02.2016 - 03.2021. Voluntary work at Fundación Aspirantes.org, Colombia. Tutor of mathematics and physics for economically disadvantaged teenagers</p>
Further qualifications	Languages: Spanish (Native), English (C1), German (C1)