

Alejandro Ovalle

Email: alejandro.ovalle@uni-bonn.de
Website: <https://alejandroovalleduque.github.io/>

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>02.2014 - 12.2019. <i>B.Sc., Physics, Universidad Nacional de Colombia.</i> Thesis: "Gravity as a Chern-Simons theory in (2+1)-dimensions". 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. Lecturer: Prof. Daniel Huybrechts.</p> <p>04.2024 - 09.2024. Teaching Assistant: Commutative algebra, University of Bonn. Lecturer: Prof. Daniel Huybrechts.</p> <p>04.2022 - 09.2022. Teaching Assistant: Linear Algebra I, University of Bonn. Lecturer: Dr. Thoralf Räsch.</p> <p>10.2021 - 03.2022. Teaching Assistant: Analysis I, University of Bonn. Lecturer: Prof. Karl-Theodor Sturm.</p>
Seminar talks	<p>Reading Seminar on Moduli spaces of stable sheaves, University of Bonn Talk: "Birational equivalence of moduli spaces and Hilbert schemes of points"</p> <p>Graduate Seminar of Master thesis, University of Bonn Talk: "Beauville-Mukai systems as Lagrangian fibrations"</p> <p>Reading Seminar on Moduli spaces of stable sheaves, University of Bonn Talk: "Smoothness and irreducibility of the Moduli spaces of stable sheaves"</p> <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 (More information on my website)</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's program from the Friedrich-Ebert-Stiftung More information: https://www.fes.de/studienfoerderung</p> <p>12.2021 - 09.2023. Scholarship for Bachelor's program from the Friedrich-Ebert-Stiftung More information: https://www.fes.de/studienfoerderung</p>

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)