

Alejandro Ovalle

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Website: <https://alejandroovalleduque.github.io/>

- 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**
- Reading Seminar on Moduli spaces of stable sheaves, University of Bonn
Talk: "Birational equivalence of moduli spaces and Hilbert schemes of points"
- 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 stable sheaves, 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.** Full scholarship for Master's program from the Friedrich-Ebert-Stiftung
More information: <https://www.fes.de/studienfoerderung>
- 12.2021 - 09.2023.** Full 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)