



# Niklas Maximilian Müller

Ph.D. Student in Mathematics



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## Education

since 01.10.22	Ph.D. student at Universität Duisburg-Essen; member of the GRK 2553 Supervisor: Daniel Greb	
01.10.20-30.09.22	M.Sc. in maths at Universität Duisburg-Essen <i>Canonical Extensions and Positivity of Curvature</i>	Grade: 1.0
01.04.19-30.09.20	B.Sc. in maths at Universität des Saarlandes <i>Vanishing Theorems in Birational Geometry</i>	Grade: 1.0
01.10.17-31.03.19	Study of physics at Universität des Saarlandes	
23.08.09-30.06.17	Attendance of high school Christian von Mannlich-Gymnasium, Homburg	Grade: 1.0

## Language Skills

German	Mother speaker
English	Fluent Cambridge Advanced Certificate; passed with 204/210 points

## Research Texts

2023	Two Non-Vanishing results concerning the Anti-Canonical Bundle. Preprint. <a href="https://doi.org/10.48550/arXiv.2305.19109">https://doi.org/10.48550/arXiv.2305.19109</a>
2022	Locally Constant Fibrations and Positivity of Curvature. Preprint. <a href="https://doi.org/10.48550/arXiv.2212.11530">https://doi.org/10.48550/arXiv.2212.11530</a>
2022	Canonical extensions of manifolds with nef tangent bundle. Preprint. <a href="https://doi.org/10.48550/arXiv.2211.03469">https://doi.org/10.48550/arXiv.2211.03469</a>

## Research Talks

07.07.23	An Equivariant Non-Vanishing Results concerning the Anti-Canonical Bundle. Joint Seminar on Complex Algebraic Geometry and Complex Analysis, Essen
05.06.23	Two Non-Vanishing Results concerning the Anti-Canonical Bundle. Minitalk during the conference on nonpositive curvature in Kähler geometry, Aussois
04.11.22	Positivity and Canonical Extensions: Surfaces and beyond. Oberseminar of Thomas Peternell, Bayreuth

## Attended Events

- 07.08.23-11.08.23 Analytic Methods in Complex Geometry. Conference.  
Westfälische Wilhelms-Universität Münster, Münster
- 04.06.23-09.06.23 Alpine Meeting on nonpositive curvature in Kähler geometry. Conference.  
ANR Karmapolis, Aussois
- 22.03.23-24.03.23 Regional Workshop in Algebraic Geometry.  
Friedrich-Schiller Universität, Jena
- 23.01.23-27.01.23 K-Stability of Fano Varieties and Birational Invariants. Winter School.  
School in Geometry, Trento
- 21.11.22-25.11.22 Geometry and Topology of Compact Homogeneous Spaces. Graduate Seminar.  
Banach Centre & Forschungsinstitut Oberwolfach, Bedlewo
- 19.09.22-23.09.22 Recent Perspectives on Hodge Theory. Summer School.  
Centro de Giorgi, Pisa
- 20.06.22-24.06.22 Workshop on Complex Geometry and Analysis: Grauert Tubes.  
Universität Duisburg-Essen, Essen
- 06.06.22-17.06.22 Non-Abelian Hodge Theory. Summer School.  
Université Grenoble Alpes, Saint-Jacub de la Mer

## Extracurricular Activities

- WT 23/24 Organiser of a Learning Seminar on Variation of GIT Quotients
- Since ST 23 Lecturer for the Junioruni Essen
- WT 22/23 Co-organiser of a Ph.D.-Seminar on Algebraic Groups
- ST 22 Student Member of an Appointment Committee at Universität Duisburg-Essen
- ST 21 Tutor for the lecture Funktionentheorie
- WT 19/20 Tutor for the lecture Lineare Algebra I
- 03/17-10/21 Swimming trainer for the DLRG (German live-saving association)