

# Jannes Bantje

Born on 28 April 1993 in Rendsburg, Germany

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## Basic information

<b>Education</b>	<i>Primary school</i>	1999–2003 Schule Altstadt, Rendsburg
	<i>Secondary school</i>	2003–2012 Gymnasium Kronwerk, Rendsburg
	<i>Abitur</i>	21 May 2012 in Rendsburg, <i>grade: 1.3</i>
<b>Studies</b>	<i>Mathematics</i>	2012–2018, WWU Münster, minor in computer science
<b>Degrees</b>	<i>Bachelor of Science</i>	23 June 2015, WWU Münster, <i>grade: 1.6</i>
	<i>Master of Science</i>	3 September 2018, WWU Münster, <i>grade: 1.2</i>
	<i>Dr. rer. nat.</i>	28 June 2023, WWU Münster, <i>magna cum laude</i>
<b>Positions</b>	<i>Student Assistant</i>	2013–2018 Mathematisches Institut WWU Münster
	<i>Research Associate</i>	2018–2023 Mathematisches Institut WWU Münster
<b>Dissertation</b>	<i>Title</i>	<a href="#">Spaces of positive scalar curvature metrics and parametrised Morse theory</a> ↗
	<i>Supervisor</i>	Prof. Dr. Johannes Ebert

## Scientific Talks

<b>Young Topologists Meeting</b>	<i>Copenhagen, July 2018</i>	Title: “Atiyah’s KR-theory and real Bott periodicity”
<b>MIT Talbot Workshop</b>	<i>Texas, Aug. 2019</i>	Talk for the workshop “Moduli spaces of manifolds” about the application to positive scalar curvature
<b>Oberseminar Topologie</b>	<i>Münster, June 2022</i>	Title: “Spaces of positive scalar curvature metrics and parametrised Morse theory”
<b>Oberseminar Topologie</b>	<i>Göttingen, July 2022</i>	Title: “Spaces of positive scalar curvature metrics and parametrised Morse theory”
<b>Young Topologists Meeting</b>	<i>Copenhagen, July 2022</i>	Title: “Spaces of positive scalar curvature metrics and parametrised Morse theory”
<b>Oberseminar</b>	<i>Augsburg, June 2023</i>	Title: “Spaces of positive scalar curvature metrics and parametrised Morse theory”

## Other Talks

<b>MM Connect</b>	<i>Münster, Oct. 2019</i>	Title: “Git for mathematical writing”
<b>MM Connect</b>	<i>Münster, Feb. 2023</i>	Title: “vscode — the ultimate text editor for $\LaTeX$ ”

## Teaching experience

<b>As student assistant</b>	<i>Tutor for small tutorial groups, 2013–2018</i>	courses, counted without multiplicity: “Lineare Algebra I.& II.”, “Einführung in die Algebra”, “Grundlagen der Analysis, Topologie und Geometrie”, “Topologie I.”, “Elemente der Topologie”
<b>Teaching assistant</b>	<i>winter term 2018</i>	tutor training
	<i>summer term 2019</i>	lecture course “Lineare Algebra für Studierende der Informatik”
	<i>winter term 2019</i>	lecture course “Analysis für Studierende der Informatik”
	<i>summer term 2020</i>	lecture course “Grundlagen der Analysis, Topologie und Geometrie”
	<i>winter term 2020</i>	additional e-learning assistant for “Analysis I.” and “Lineare Algebra I.”
<b>Special Teaching</b>	<i>summer term 2021</i>	additional e-learning assistant for “Analysis II.” and “Lineare Algebra II.”
	<i>winter term 2022</i>	assistant for the propaedeutic, in which the prospective teachers had to produce mathematical videos themselves
	<i>video production</i>	assessment of various production methods, instruction for new video producers, selection of suitable hardware, management of simple video production kits
	<i>inverted classroom</i>	setup in Moodle, organisation of video production, design of fitting worksheets
	<i>video catalogue</i>	design, implementation and entering of data

## Skills

<b>Languages</b>	<i>German</i>	Mother-tongue
	<i>English</i>	fluent
<b>Programming languages</b>	<i>Python</i>	solid knowledge; Jupyter notebooks, data analysis using pandas, mathematical animations using the manim library (created by the 3Blue1Brown YouTube channel)
	<i>LaTeX</i>	expert knowledge; including beamer, TikZ, KOMAscript
	<i>Git</i>	everyday use; continuous integration using GitLab CI
	<i>Java</i>	Basic knowledge acquired during computer science minor, in particular during a “Projektseminar” in cooperation with an industry partner
<b>Media production</b>	<i>video editing</i>	Davinci Resolve
	<i>print design</i>	Adobe InDesign and Affinity Publisher
	<i>photography</i>	experienced photographer; editing in Adobe Lightroom