

# Curriculum Vitae

## Personal Data

Name	Paul Schwahn
Date of birth	14. Feb. 1999
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Present position	Postdoctoral researcher at LMO (Paris-Saclay)

## Education

2014–2017	B.Sc. studies at the University of Stuttgart
Oct 2017	Graduation with a B.Sc. in Mathematics at the University of Stuttgart. Bachelor's thesis: <i>Scattering theory for automorphic functions</i>  Award of the <i>Robert Bosch GmbH</i> for excellent B.Sc. degree
2017–2020	M.Sc. studies at the JLU Gießen and the University of Stuttgart
Apr 2020	Graduation with a M.Sc. in Mathematics at the University of Stuttgart. Master's thesis: <i>Einstein deformations on homogeneous spaces</i>
Jan 2021	Award of the <a href="#"><i>Freunde der Mathematik an der Universität Stuttgart</i></a> (Friends of mathematics at the University of Stuttgart) for best M.Sc. degree
Jul 2021	Award of the <a href="#"><i>Freunde der Universität Stuttgart</i></a> (Friends of the University of Stuttgart) for extraordinary scientific accomplishments
2020–2023	Doctoral studies in Mathematics under the supervision of Prof. Uwe Semmelmann
Jul 2023	Graduation <i>summa cum laude</i> with a Dr.rer.nat. at the University of Stuttgart. Doctoral thesis: <a href="#"><i>Stability of Einstein metrics on homogeneous spaces</i></a>

## Work experience

2016–2020	Student assistant/tutor for various mathematics courses at the University of Stuttgart
2020–2023	Research associate/teaching assistant at the Institute of Geometry and Topology, University of Stuttgart

	Assistance for the courses <i>Geometry for teachers</i> , <i>Higher mathematics 2/3</i> for engineering students, <i>Analysis 2/3</i>
2022	Member of <a href="#"><i>SPP 2026 Geometry at Infinity</i></a>
2023–2024	Postdoctoral researcher at <i>Laboratoire de mathématiques d’Orsay</i> , Université Paris-Saclay
as of 2024	Postdoctoral researcher at IMECC, Unicamp

## Schools, seminars, stays

Sep 2016	<a href="#"><i>Ferienakademie</i></a> (summer school) of FAU Erlangen-Nürnberg, TU Munich and University of Stuttgart
Oct 2020	Working seminar at Philipps-Universität Marburg, Department of Mathematics
Jul 2021	Summer school course <a href="#"><i>Riemannian foliations and Lie group actions</i></a> , Scuola Matematica Interuniversitaria, Cortona
May 2022	Research stay at CUNY with Renato Bettiol
Sep 2022	Block seminar <a href="#"><i>Construction and degeneration of Einstein 4-manifolds</i></a> , University of Regensburg
Nov 2022	Oberwolfach Graduate Seminar <a href="#"><i>Geometry and Topology of Compact Homogeneous Spaces</i></a>
Jun 2024	Summer school of the <a href="#"><i>BRIDGES meeting 2024</i></a> , Institut d’Études Scientifiques de Cargèse

## Seminar talks

Sep 2021	Differential Geometry Seminar, Universidad Nacional de Córdoba
Nov 2021	<a href="#"><i>Geometry &amp; Topology Seminar</i></a> , University of Stuttgart
May 2022	<a href="#"><i>CUNY Geometric Analysis Seminar</i></a>
May 2022	<a href="#"><i>Geometry Seminar</i></a> , University of Florence
Jul 2022	<a href="#"><i>London Geometry &amp; Topology Seminar</i></a>
May 2023	<a href="#"><i>Riemannian Topology Seminar</i></a> , University of Stuttgart
May 2023	Online talk at the <a href="#"><i>Virtual Seminar on Geometry with Symmetries</i></a>
Oct 2023	<i>Séminaire Géométrie Topologie Dynamique</i> , Université Paris-Saclay
Dec 2023	Research Seminar <a href="#"><i>Differential Geometry and Analysis</i></a> of Philipps-Universität Marburg
Mar 2024	Geometry seminar of Université Claude-Bernard Lyon
Apr 2024	<a href="#"><i>ULB geometry seminar</i></a> , Université Libre de Bruxelles

Jul 2024 [\*Geometry & Topology Seminar\*](#), University of Stuttgart

Jul 2024 [\*Seminar Geometry\*](#), KU Leuven

## Conference posters

Jul 2021 Poster and [online talk](#) at [\*Mathematical Congress of the Americas\*](#)

Mar 2024 Poster at the conference [\*Special Holonomy and Geometric Structures on Complex Manifolds\*](#), IMPA

## Conference talks

Aug 2022 [\*Spaces, Structures, Symmetries\*](#), Università degli Studi di Bari Aldo Moro

Jun 2023 BRIDGES workshop [\*Special geometries and gauge theories\*](#), University of Pau

Jul 2023 [\*Einstein Spaces and Special Geometry\*](#), Institut Mittag-Leffler

Jul 2024 BRIDGES meeting in [\*Gauge Theory, extremal structures and stability\*](#), Institut d'Études Scientifiques de Cargèse

Jul 2024 [\*Junior Meeting Einstein Geometry and Special Holonomy\*](#), Christian-Albrechts-Universität zu Kiel

## Organization of events

Sep 2023 Co-organizer of the [\*Sesquinar\*](#), a student seminar about tensors, University of Stuttgart

Oct 2023 Co-organizer of [\*The Crazy World of Arthur L. Besse: a workshop on Einstein manifolds\*](#), University of Stuttgart

## Miscellaneous

2015–2020 Commitment in the [Faculty Student Group](#) in Stuttgart

2022–2023 Elected representative of doctoral students in the Faculty Council (Mathematics and Physics), Chairman of Faculty Student Council and member of the [Student Parliament](#) in Stuttgart

## Skills and interests

Languages English (fluent), French (basic), German (native), Portuguese (very basic)

Programming C++, LiE, Matlab, Python, SageMath

Hobbies/Interests Climbing, Piano, Pen&Paper RPGs, Game development, Formalization of mathematics/proof assistants

Orsay, July 10, 2024