

Curriculum Vitae

Willem Adriaan Salm
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Work experience

Université Libre de Bruxelles - Aug. 2023 – Sep. 2026
Postdoctoral researcher

Unitemps, UK - Jun. 2023 – Jul. 2023
Software engineer

Minded Digitaal Kantoor B.V. - Jan. 2010 – Sep. 2018
Software engineer

Education

University College London - Aug. 2019 – Jun. 2023
Heriot-Watt University - Sep. 2018 – Aug. 2019
Doctor of Philosophy - *Mathematics*

Utrecht University - Sep. 2015 – Jul. 2018
Masters (honours) - *Mathematical Sciences*
Masters (honours) - *Theoretical Physics*

Utrecht University - Sep. 2012 – Jul. 2015
Bachelors - *Mathematics*
Bachelors - *Physics*

Publications and preprints

Published

Salm, W.A. Elliptic Analysis on Collapsing Gravitational Instantons Modelled Using the Gibbons-Hawking Ansatz. *J Geom Anal* **35**, 295 (2025).

In review

Haydys, A & Salm, WA. *Search for $Z/2$ eigenfunctions on the sphere using machine learning.* (2025). arXiv: 2507.13122 [math.DG].

Salm, W.A. *Construction of $\mathbb{Z}_2$ -harmonic 1-forms on closed 3-manifolds with long cylindrical necks.* (2024). arXiv: 2410.07015 [math.DG].

Salm, W.A. *Construction of gravitational instantons with non-maximal volume growth via codimension-1 collapse.* (2024). arXiv: 2406.16318 [math.DG].

Selected talks and presentations

News on Geometry, Topology, and Analysis - Jun. 13 2025
Université Libre de Bruxelles

Geometry Seminar - Mar. 5 2025
Morningside Center of Mathematics, Beijing

Homological Mirror Symmetry Seminar - Feb. 14 2025
Université Libre de Bruxelles

Gauge Theory Research Seminar - Nov. 7 2024
Humboldt-Universität, Berlin

ULB Geometry Seminar - Okt. 21 2024

Université Libre de Bruxelles

Geometry Seminar - Aug. 28 2024

Morningside Center of Mathematics, Beijing - *Online*

The Analysis & Geometry Seminar - May. 22 2024

Universiteit van Antwerpen

Geometry and Mathematical Physics seminar - Apr. 16 2024

University of York - *Online*

ULB Geometry Seminar - Nov. 8 2022

Université Libre de Bruxelles

Junior-Geometry Seminar - May 28 2021

Imperial College London

KCL/UCL Junior-Geometry Seminar - Jan. 28 2021

University College London

Geometric Analysis Seminar - Nov. 26 2020

University College London

Postgraduate Seminar - Jan. 14 2020

University College London

**Teaching
experience**

Université Libre de Bruxelles

Teaching Assistant, *Riemann Surfaces* - Sep. 2026 – Dec. 2026

Teaching Assistant, *Algebraic Topology* - Sep. 2025 – Dec. 2025

Teaching Assistant, *Riemann Surfaces* - Feb. 2024 – May. 2024

Teaching Assistant, *Algebraic Topology* - Sep. 2023 – Dec. 2023

University College London

Demonstrator, *Algebra 3* - Sep. 2022 – Dec. 2022

Developer, *Automated marking of assessments* - Jan. 2022 – Mar. 2022

Demonstrator, *Algebra 3* - Sep. 2021 – Dec. 2021

Developer, *Automated marking of assessments* - Jan. 2021 – Mar. 2021

Demonstrator, *Algebra 3* - Sep. 2020 – Dec. 2020

Teaching Assistant, *Algebra 2* - Jan. 2019 – Mar. 2020

Heriot-Watt University

Teaching Assistant, *Discrete Mathematics* - Jan. 2019 – Mar. 2019

Teaching Training Program - Sep. 2018 – Jul. 2019

Miscellaneous

Peer review

Geometry & Topology - 2025

La Matematica - 2024

Conference organisation

Early Career Researchers in Mathematics - Jun. 21 2022 – Jun. 24 2022