

Anna Lagemann



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Professional Development

since 04/2020 **Research Assistant, Institute for Mathematics, RWTH Aachen University**

- since 04/2023: Teaching assistant for the exercise class in "Lineare Algebra II"
- 04/2022 - 03/2023: Teaching assistant for the exercise class in „Higher Mathematics“
- 07/2021: Short course on Master's thesis
- 04/2020 - 09/2020: Teaching assistant in lecture „Ordinary Differential Equations“
- since 10/2020: Doctoral researcher in Research Training Group „Energy, Entropy, and Dissipative Dynamics“

10/2018 – 02/2019 **Data Analytics Intern, Lufthansa Technik AG, Hamburg**

Collaboration in an interdisciplinary research project for the collection and analysis of data from the maintenance of aircraft components

10/2015 – 09/2018 **Student Assistant**

Independent supervision of tutorials for students

Academic Education

since 04/2020 **PhD Student, RWTH Aachen University**

- Title: Variational approach to study Arnold's invariants of immersed planar curves (submitted 05/2023)
- Advisors: Prof. Dr. Umberto Hryniewicz , Prof. Dr. Heiko von der Mosel

10/2017 – 11/2019 **Master of Science (Mathematics), RWTH Aachen University, Grade 1.0 with distinction**

- Master's Thesis: Discrete tangent-point energies on biarc-curves and Γ -convergence
- Advisor: Prof. Dr. Heiko von der Mosel

10/2014 – 09/2017 **Bachelor of Science (Mathematics), RWTH Aachen University, Grade 1.2 with distinction**

- Bachelor's Thesis: Verbesserte Konvergenz von Variationsproblemen
- Advisor: Prof. Dr. Heiko von der Mosel

08/2005 – 04/2013 **Abitur, Gymnasium St. Mauritz, Münster, Grade 1.0**

Scholarships and Awards

01/2016 - 01/2021 **Dean's List of RWTH Aachen University**

Top five percent of each semester

09/2020 **Springorum Commemorative Coin**

Recognition for excellent master's examination

10/2018 - 09/2019 **Scholarship of the Education Fund of RWTH Aachen University**

11/2017 **Schöneborn Award 2017**

Recognition for excellent performance in the Bachelor

Publications

- 2023 Anna Lagemann and Heiko von der Mosel, *Tangent-point energies and ropelength as Gamma-limits of discrete tangent-point energies on biarc curves*, Advances in Continuous and Discrete Models, doi.org/10.1186/s13662-022-03750-4
- 2020 Anna Lagemann, *Variational approach to the Arnold invariants of immersed planar curves via knot energies*, MFO Report No. 37/2020, doi.org/10.14760/OWR-2020-37

Invited Talks

- 11/2022 **Oberseminar Differentialgeometrie**, Augsburg
- 06/2022 **Guest Lecture**, Salzburg
- 06/2022 **Oberseminar Analysis**, Bonn
- 05/2022 **Online Seminar "Geometric Analysis"**, Zoom/Online, <https://youtu.be/PmFlnWxJv9g>

Presentations at Conferences and Workshops

- 09/2021 **DMV-ÖMG Annual Conference 2021**, Conference, Zoom/Online
- 11/2020 **Nonlocal Analysis and the Geometry of Embeddings**, Mini-Workshop, Oberwolfach

Research stays

- 06/2022 - 7/2022 **Visiting researcher**, 4 weeks, Paris-Lodron University Salzburg, invited by Simon Blatt

Further Engagement

- 01/2023 **Organization of the first "dr. rer. mat. night"**, RWTH Aachen University
Three minute talks by PhD students and Postdocs from the math department at RWTH Aachen University on their research with networking afterwards, more than 100 attendees
- 09/2021 - 09/2022 **Representative of doctoral researchers in the Research Training Group**
Member of the steering committee, organization of research seminars, social events and outreach events for bachelor's and master's students

Languages

- German Native speaker
- English Fluent
- Dutch Intermediate

Academic References

- Heiko von der Mosel**, RWTH Aachen University
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- Umberto Hryniewicz**, RWTH Aachen University
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