

GITTE KREMLING

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🎓 [Google Scholar](#)

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EDUCATION

Ph.D. in Mathematics

Aug 2024

UNIVERSITY OF WISCONSIN-MILWAUKEE, USA

Thesis: “Bootstrap-based goodness-of-fit test for parametric families of conditional distributions”

Supervised by: Gerhard Dikta and Richard Stockbridge

Graduated with highest possible GPA (4.0)

M.Sc. in Applied Mathematics & Computer Science (formerly Technomathematics)

Aug 2019

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Thesis: “Convergence analysis for multi-level spectral deferred corrections”

Graduated with highest possible GPA (1.0)

B.Sc. in Applied Mathematics & Computer Science (formerly Scientific Programming)

Aug 2017

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Graduated with highest possible GPA (1.0)

ACADEMIC EXPERIENCE

Postdoctoral Researcher

Apr 2025 – now

UNIVERSITY OF HAMBURG, GERMANY

Department of Mathematics, Principal Investigator: Johannes Lederer

Research Associate

Sep 2022 – Mar 2025

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Department of Medical Engineering and Technomathematics

Teaching Assistant

Jan 2020 – Jul 2022

UNIVERSITY OF WISCONSIN-MILWAUKEE, USA

Department of Mathematical Sciences

Research Associate

Sep 2017 - Dec 2019

FORSCHUNGSZENTRUM JÜLICH GMBH, GERMANY

Jülich Supercomputing Center, Division Mathematics and Education

Professional Trainee (Mathematical-Technical Software Developer)

Sep 2014 - Aug 2017

FORSCHUNGSZENTRUM JÜLICH GMBH, GERMANY

Jülich Supercomputing Center, Division Communication Systems

HONORS AND AWARDS

Badge of Honor (M.Sc.)

Aug 2019

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Awarded to the best 5% of graduates

Deutschlandstipendium

Sep 2018 - Aug 2019

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Provides financial and non-material support to high-achieving and committed students

Badge of Honor (B.Sc.)

Aug 2017

FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY

Awarded to the best 5% of graduates

PUBLICATIONS AND PREPRINTS

Kremling, G. and Dikta, G. (2025, under review). Asymptotic properties of the MLE in distributional regression under random censoring. Submitted for publication. [arXiv:2503.14311](https://arxiv.org/abs/2503.14311)

Kremling, G. and Dikta, G. (2024, under review). Bootstrap-based goodness-of-fit test for parametric families of conditional distributions. Submitted for publication. [arXiv:2409.20262](https://arxiv.org/abs/2409.20262)

Kremling, G. and Speck, R. (2021). Convergence of multilevel spectral deferred corrections. *Communications in Applied Mathematics and Computational Science*, 16(2), 227-265, [doi:10.2140/camcos.2021.16.227](https://doi.org/10.2140/camcos.2021.16.227)

PUBLISHED SOFTWARE

Kremling, G. (2024). gofreg: Bootstrap-Based Goodness-of-Fit Tests for Parametric Regression, R package version 1.0.0. <https://CRAN.R-project.org/package=gofreg>.

PRESENTATIONS

German Probability and Statistics Days , Dresden, Germany (Talk)	Mar 2025
Joint Statistical Meetings , Portland, OR, USA (Talk)	Aug 2024
European Meeting of Statisticians , Warsaw, Poland (Talk)	Jul 2023
German Probability and Statistics Days , Essen, Germany (Poster)	Mar 2023
Graduate Student Colloquium , Department of Mathematical Sciences, University of Wisconsin-Milwaukee, USA (Talks)	Dec 2021 & Apr 2022
International Conference on Scientific Computing and Differential Equations , Innsbruck, Austria (Talk)	Jul 2019

TEACHING EXPERIENCE

As Instructor

Statistical Modeling (graduate course), FH Aachen	Fall 2024
Algebra (Upward Bound Math & Science program), UW-Milwaukee	Summer 2022
Precalculus (Upward Bound Math & Science program), UW-Milwaukee	Summer 2022
Calculus and Analytic Geometry I (undergraduate course), UW-Milwaukee	Spring 2022
Algebraic Literacy I and II (undergraduate course), UW-Milwaukee	Fall 2021
Precalculus (undergraduate course), UW-Milwaukee	Spring 2021
Introduction to College Algebra (undergraduate course), UW-Milwaukee	Fall 2020

As Teaching Assistant

Functional Analysis (graduate course), FH Aachen	Fall 2024
Numerical Methods in Machine Learning (graduate course), FH Aachen	Fall 2024
Bootstrap Methods in Statistics (graduate course), FH Aachen	Spring 2024
Statistical Modeling (graduate course), FH Aachen	Fall 2023
Time Series Analysis and Prognosis (graduate course), FH Aachen	Fall 2023
Numerical Analysis (undergraduate course), FH Aachen	Spring 2019 & 2023
Probability Theory (undergraduate course), FH Aachen	Fall 2019

WORKSHOPS AND TRAINING

- Mathematical Problems in Industry Workshop**, Worcester, MA, USA Jun 2022
Collaborated with a team to develop innovative approaches for regression analysis of sparse and noisy data
- Graduate Student Mathematical Modeling Camp**, Newark, DE, USA Jun 2022
Contributed to the development of a model for the dynamics of a snowflake in a cloud microphysics framework

PROFESSIONAL MEMBERSHIPS

American Statistical Association
Caucus for Women in Statistics and Data Science
DMV Fachgruppe Stochastik
Econometric Society
Institute of Mathematical Statistics

REFERENCES

- Gerhard Dikta**, PhD Co-Advisor
FH AACHEN UNIVERSITY OF APPLIED SCIENCES, GERMANY
👤 [Homepage](#) ✉ dikta@fh-aachen.de
- Richard Stockbridge**, PhD Co-Advisor
UNIVERSITY OF WISCONSIN-MILWAUKEE, USA
👤 [Homepage](#) ✉ stockbri@uwm.edu
- Hayley Nathan**, Course Coordinator
UNIVERSITY OF WISCONSIN-MILWAUKEE, USA
👤 [Homepage](#) ✉ henathan@uwm.edu
- Robert Speck**, Master's Thesis Advisor
FORSCHUNGSZENTRUM JÜLICH, GERMANY
👤 [Homepage](#) ✉ r.speck@fz-juelich.de