



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Matematica Federico Enriques**

Scientist- in - charge: Prof. Dr. Niels Patriz Benedikter

Cornelia Vogel

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Vogel
Name	Cornelia

PRESENT OCCUPATION

Appointment	Structure
PhD student	University of Tübingen

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Master of Science (M.Sc.)	Mathematics	University of Stuttgart	2019
Master of Science (M.Sc.)	Physics	University of Tübingen	2018
Bachelor of Science (B.Sc.)	Mathematics	FernUniversität in Hagen	2018
Bachelor of Science (B.Sc.)	Physics	University of Stuttgart	2015
Bachelor of Science (B.Sc.)	Psychology	FernUniversität in Hagen	2015

LANGUAGES

Languages	Level of knowledge
German	Native speaker



English	Fluent
Latin	Advanced
Italian	Intermediate

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2012/2013	Deutschlandstipendium (a one year scholarship), University of Stuttgart
2021-2024	Doctoral Scholarship from the German Academic Scholarship Foundation (“Studienstiftung des deutschen Volkes”) lasting from 09/2021 until the end of 2024

RESEARCH VISITS

Month/Year	Institution and group
03-06/2024	IST Austria, Klosterneuburg, Austria; Group of Prof. Dr. László Erdős
05/2024	Università degli studi di Milano, Milan, Italy (5.5.-11.5.2024); Invited by Prof. Dr. Niels Benedikter

TALKS AND POSTERS

Date	Title	Conference/Seminar	Place
08/2024	Thermalization of Free Fermion Systems (Contributed Poster)	Rigorous Renormalization Group Analysis of Collective Phenomena in Fermionic Quantum Systems	Como, Italy
05/2024	Concentration of measure for thermal distributions of quantum states (Seminar Talk)	Itinerant Quantum Math Meetings	Università degli studi di Milano, Milan, Italy
03/2024	Concentration of measure for thermal distributions of quantum states (Seminar Talk)	MathPhys Analysis Seminar	IST Austria, Klosterneuburg, Austria
08/2023	Canonical Typicality For Other Ensembles Than Micro-Canonical (Contributed Talk)	793. WE-Hereaus-Seminar: Nonequilibrium Physics - Current Trends and Future Perspectives	Bad Honnef, Germany



08/2023	Canonical Typicality For Other Ensembles Than Micro-Canonical (Contributed Talk)	Current Topics in Mathematical Physics	Warsaw, Poland
06/2023	Canonical Typicality For Other Ensembles Than Micro-Canonical (Seminar Talk)	Oberseminar Mathematical Physics	University of Tübingen, Tübingen, Germany
08/2022	Typical Macroscopic Long-Time Behavior for Random Hamiltonians (Contributed Talk)	Laws of Nature Conference	Munich, Germany
08/2022	Generalized Normal Typicality (Contributed Talk)	Summer School: The Nature of Entropy II: Arrow of Time	Kochel am See, Germany
06/2022	Typical Macroscopic Long-Time Behavior for Random Hamiltonians (Contributed Poster)	Probability and Mathematical Physics	Helsinki, Finland
06/2021	Boltzmann Entropy in Quantum Systems (Seminar Talk)	Functional Analysis Seminar (online)	University of Tübingen, Tübingen, Germany
11/2019	Dynamics of the Polaron (Seminar Talk)	Oberseminar Mathematical Physics	University of Tübingen, Tübingen, Germany

CONFERENCES AND SCHOOLS

Date	Title	Place
08/2024	Rigorous Renormalization Group Analysis of Collective Phenomena in Fermionic Quantum Systems	Como, Italy
07/2024	Summer School on Current Topics in Mathematical Physics	Zurich, Switzerland
07/2024	XXI International Congress on Mathematical Physics (ICMP)	Strasbourg, France
06/2024	Young Researcher Symposium (YRS)	Strasbourg, France
06/2024	3rd ISTA Summer School in Analysis and Mathematical Physics	Klosterneuburg, Austria
08/2023	793. WE-Heraeus-Seminar: Nonequilibrium Physics - Current Trends and Future Perspectives	Bad Honnef, Germany
08/2023	Current Topics in Mathematical Physics	Warsaw, Poland



06/2023	Recent Advances in Quantum and Statistical Mechanics	Bonn, Germany
03/2023	Scaling limits and generalized hydrodynamics	L'Aquila, Italy (online)
08/2022	Laws of Nature Conference	Munich, Germany
08/2022	Summer School: The Nature of Entropy II: Arrow of Time	Kochel am See, Germany
07/2022	Probability and Mathematical Physics	Helsinki, Finland
06/2022	Mathematical results of many-body quantum systems	Herrsching, Germany
09/2021	Statistical and Quantum Mechanics: reconsidering their foundations in the light of new cutting edge experiments and theoretical models	L'Aquila, Italy (online)
08/2021	XX International Congress on Mathematical Physics (ICMP)	Geneva, Switzerland
07/2021	Young Researcher Symposium (YRS)	Geneva, Switzerland
07/2021	Summer School: Current Topics in Mathematical Physics	Zurich, Switzerland
04-06/2021	SRF Course: Soliton stability in nonlinear dispersive PDEs set on the line	online
03/2021	Gran Sasso Quantum Meetings: From Equilibrium Phenomena Towards Open Quantum Systems	online
07/2019	Summer School: The Nature of Entropy I: From thermodynamics to black holes	Saig, Germany

PUBLICATIONS

Articles and Preprints
B. Roos, S. Teufel, R. Tumulka and C. Vogel. Macroscopic Thermalization for Highly Degenerate Hamiltonians, 2024, Preprint. arXiv:2408.15832
S. Teufel, R. Tumulka and C. Vogel. Canonical Typicality for Other Ensembles than Micro-canonical. <i>Annales Henri Poincaré</i> , 2024. arXiv:2307.15624
S. Teufel, R. Tumulka and C. Vogel. Typical Macroscopic Long-Time Behavior for Random Hamiltonians, 2024. <i>Accepted for publication in Annales Henri Poincaré</i> . arXiv:2303.13242
S. Teufel, R. Tumulka and C. Vogel. Time Evolution of Typical Pure States from a Macroscopic Hilbert Subspace. <i>Journal of Statistical Physics</i> , 190(69), 2023. arXiv:2210.10018



TEACHING EXPERIENCE

Semester	Course	University
Winter 2023/24	Teaching Assistant for Analysis 2 (two exercise classes during the first half of the semester)	University of Tübingen
Winter 2020/21	Teaching Assistant for Mathematical Quantum Theory (two exercise classes)	University of Tübingen
Summer 2020	Teaching Assistant for Mathematical Statistical Physics (one exercise class)	University of Tübingen
Winter 2019/20	Teaching Assistant for Analysis 2 (one exercise class)	University of Tübingen
Summer 2017	Teaching Assistant for Stochastics (one exercise class)	University of Tübingen
Summer 2015	Teaching Assistant for Linear Algebra and Analytical Geometry II (one exercise class)	University of Stuttgart
Winter 2014/15	Teaching Assistant for Linear Algebra and Analytical Geometry I (one exercise class)	University of Stuttgart
Summer 2014	Teaching Assistant for Linear Algebra and Analytical Geometry II (one exercise class)	University of Stuttgart
Winter 2013/14	Teaching Assistant for Linear Algebra and Analytical Geometry I (one exercise class)	University of Stuttgart

ACADEMIC SERVICES

Referee for <i>Annales Henri Poincaré</i> and <i>Physica A: Statistical Mechanics and its Applications</i>
2023: Member of the selection committee at a selection seminar for first/second-semester students for scholarships from the German Academic Scholarship Foundation (<i>Studienstiftung des deutschen Volkes</i>)
2021: Member of the hiring committee for <i>W1 Junior Professorship in Mathematical Quantum Theory</i> , University of Tübingen
2013/2014: Member of the hiring committee for <i>W1 Junior Professorship Ultrafast Optics and Solid-State Spectroscopy</i> , University of Stuttgart

MENTORING EXPERIENCE

Since 10/2023: Mentor for <i>Cybermentor</i> , Germany's largest online mentoring program for girls (from grade 5 to 13) in STEM
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Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.



Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Kernen im Remstal, 26.11.2024