

Sascha Lill

CV last updated: June 29, 2021

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EDUCATION

since 2018	PhD studies in Mathematics Supervisors: Prof. Roderich Tumulka, Prof. Jean-Bernard Bru, Prof. Stefan Teufel	Tübingen University, BCAM Bilbao
2016–2018	Elite Master “TMP” Thesis: “Existence of Multi-Time Dynamics in a Quantum Field Theory model” final grade: 1.2 (with distinction)	LMU Munich
2013–2016	Bachelor Physics Thesis: “Truncation of the Quantum many particle hierarchy in a chaotic dissipative system” final grade: 1.1 (with distinction)	OvGU Magdeburg
	Bachelor Mathematics Thesis: “Iterative refinement in Sequential Quadratic Programming for high precision solutions” final grade: 1.0 (with distinction)	OvGU Magdeburg

PUBLICATIONS

2021	S. Lill, R. Tumulka: Another Proof of Born’s Rule on Arbitrary Cauchy Surfaces, https://arxiv.org/abs/2104.13861 (submitted)
2020	S. Lill: Extended State Space for describing renormalized Fock spaces in QFT https://arxiv.org/abs/2012.12608 (submitted)
2020	S. Lill, R. Tumulka, L. Nickel: Consistency Proof for Multi-Time Schrodinger Equations with Particle Creation and Ultraviolet Cut-Off, Ann. Henri Poincaré (2021) https://arxiv.org/abs/2001.05920

GRANTS, POSITIONS, SCHOLARSHIPS

2021-2022	PhD position, BCAM Bilbao
2021	DAAD scholarship (research visit Cergy-Pontoise, France)
2020-2021	Grant by Wilhelm Schuler-Stiftung Tübingen
2019	SIS fellowship (research visit at SISSA, Trieste, Italy)
2019	DAAD PROMOS scholarship (language school, Beijing University, China)
2013–2018	Student scholarship by German Academic Scholarship Foundation “Stiftung des deutschen Volkes”

TEACHING

Tübingen	Tutor Analysis 1, Analysis 2, Linear Algebra 1, Geometry, Math Hour, didactic training workshop for tutors
Reutlingen	2 University math prep courses (both German and English)
Munich	Exercise corrector MQM (Mathematical Quantum Mechanics)
Magdeburg	Tutor Physics 1 , creating theoretical instructions for experiments

SEMINARS, SCIENTIFIC WORKSHOPS

2021	QFT seminar Cergy-Pontoise (online)	talk
	Cergy-Pontoise: “Journée Fluides et Couches Limites”	
	ESI Vienna: “Soliton stability in nonlinear dispersive PDEs set on the line” (online)	
	GSSI: “From Equilibrium Phenomena Towards Open Quantum Systems” (online)	
	Mathematical seminar of Aarhus university (online)	talk
	Seminar “Foundations of statistical Mechanics” (online)	talk
	Mathematical Physics “Oberseminar” (Tübingen/online)	2 talks
	Seminar “Machine learning” (online)	talk
2020	Minisymposium “Nonlinear Dynamics in Quantum Mechanics” (online)	
	Seminar on Quantum Foundations (Tübingen/online)	talk
	Mathematical Physics colloquium (Tübingen/online)	talk
	Seminar “Foundations of Physics” (Munich)	talk
2019	Strongly Interacting Field Theories – SIFT Workshop (Jena, Germany)	
	Visit at the QFT Group Leipzig (Germany)	talk
	44th LQP2 Workshop (Göttingen, Germany)	talk
	Summer School on Quantum Paradoxes (Hvar, Croatia)	
	Ghirardi Summer School (Trieste, Italy)	talk
	Visit at MPQ Garching (Munich, Germany)	talk
	“TÜFFF” outreach event (Tübingen)	poster
	Zürich–Tübingen meetings in Mathematical Physics	
	Spring School “Multi-Time Wave Functions” (Tübingen)	talk
	Mathematical Physics seminar (Munich)	talk
2018	Mathematical Physics “Oberseminar” (Tübingen)	talk
	Elitenetzwerk Bayern: “Academic Writing Workshop”	
	Seminar “Foundations of Physics” (Tübingen)	talk
	Workshop “Multi-Time Wave Functions” (Rutgers, USA)	talk

EXTRACURRICULAR ACTIVITIES

since 2013	eLeMeNTe e.V. –society for promotion of science in schools organization of seminars for school students, correction of olympiads, personal coaching
since 2019	Serlo e.V. Leading translation project: “Analysis 1” articles from German to English, Wikibooks editor
2019–2021	junge Deutsche Physikalische Gesellschaft (jDPG) Editor within the outreach project “175 Impulse”, organization of outreach events
2015–2016	Member of the exam and reaccreditation committee (OvGU)

SCIENTIFIC COMPETITIONS

2018	PLANCKS team competition, Zagreb, Croatia	national team member
2013	International Physics Olympiad (IPhO)	Silver medal
2012	Middle European Mathematics Olympiad (MEMO)	Bronze medal
2011–2013	National Mathematics Olympiad Germany	3 participations
2009–2010	International Junior Science Olympiad (IJSO)	national team member
2005–2013	Mathematics and Physics Olympiads of the federal state Sachsen-Anhalt 11 participations, out of which 6×first place	

TALENT SUPPORT PROGRAMMES

2007–2012	Scientific talent support programme of the “eLeMeNTe e.V.”
2005–2013	Jugend trainiert Mathematik: German national math training programme

LANGUAGES

German	Mother tongue
English	C2
French	B2
Italian	A2
Chinese	A1
Latin	“Latinum”

IT SKILLS

MATLAB	B.Sc. thesis + 5 lectures
Python	B.Sc. thesis + 2 lectures
C	3 lectures
SQL	project in student internship

