# Clemens Thalhammer

## PHD STUDENT · APPLIED MATHEMATICS

Educatio	n	
	MATHEMATICS r: Habib Ammari	Zurich, Switzerland since 2025
ETH Zurich MSc Applied Mathematics • Focus in Mathematical Physics, Graduated with Distinction. Grade 5.78/6 ETH Zurich BSc Mathematics • Grade 5.24/6		Zurich, Switzerland 2023 - 2025 Zurich, Switzerland 2020 - 2023
2022, 2023 2017-2019 2013-2017	Undergraduate Teaching Assistant, ETH Zurich Coordinator, Kinderuni Medizin, Medical University of Vienna Volunteer, Kinderuni Medizin, Medical University of Vienna	
Research	Experience	
Advisors: Pi	llege London - Dept. of Mathematics ROF. HABIB AMMARI, PROF. RICHARD CRASTER, DR. BRYN DAVIES s: "Computational Models for Quasiperiodic Differential Equations"	London, United Kingdom Summer 2024
Teaching	Experience	
2023 2023 2022	Numerical Methods, Exam Preparation Course Numerical Methods, Teaching Assistant Numerical Methods, Teaching Assistant	
Awards, I	Fellowships, & Grants	
2025	ETH Medal for an outstanding Master Thesis, ETH Zurich	
Presenta Invited Ta	tions LKS	
	Computational Models for Quasiperiodic ODEs. Invited talk: Workshop ondon, United Kingdom.	on Metamaterials with Extra Dimen-
Leadersh	nip & Service	
LEADERSHI	P	
VMM (Mid-le	evel Faculty Association)	Zurich, Switzerland

Represented early-career researchers in faculty governance and contributed to policy development and strategic decisions. Acted as a liaison between faculty leadership and members, ensuring transparent communication and engagement.

#### SERVICE AND OUTREACH

### Kinderuni Medizin, Medical University of Vienna

Vienna, Austria 2017-2019

COORDINATOR

Led the planning and execution of workshops for children, coordinating volunteers, scheduling events, and ensuring smooth program delivery for large audiences.

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Publications		
FUDIICAUOUS		

Habib Ammari, Silvio Barandun, Yannick De Bruijn, Ping Liu, Clemens Thalhammer. 2025. Spectra and pseudo-spectra of tridiagonal k-Toeplitz matrices and the topological origin of the non-Hermitian skin effect. Journal of Physics A: Mathematical and Theoretical 58(20):205201.

Bryn Davies, Clemens Thalhammer. 2025. Convergence of supercell and superspace methods for computing spectra of quasiperiodic operators. Proceedings of the Royal Society A 481(2319):20240894.

#### **PREPRINTS**

Habib Ammari, Clemens Thalhammer, Alexander Uhlmann. 2025. Uniform Hyperbolicity, Bandgaps and Edge Modes in Aperiodic Systems of Subwavelength Resonators. arXiv:2509.22417.