

RESUME

CONTACT INFORMATION	Ulrich Ebling 32A Rame Road, Greenhithe Auckland 0632, New Zealand	Mobile: +64 21 166 4616 E-mail: uebling97@gmail.com Profiles: LinkedIn , GitHub
ABOUT ME	A quantum physicist (theory) with a strong computational physics background. Looking for opportunities in data science (esp. machine learning), high-performance computing or quantitative finance.	
SKILLS	<ul style="list-style-type: none">• Analysis and visualization of numerical and experimental data• Scientific computing, Monte-Carlo simulations, time-series analysis• Numerical modelling of partial differential equations• Systems: Windows, Linux• Programming languages: FORTRAN, Matlab, Mathematica, Python, SQL• Tools: Git, LaTeX, cmake, SGE, slurm• High-Performance Computing: MPI, OpenMP, SGE, slurm• Languages: German (native), English (fluent), Spanish (fluent), Japanese (basic)	
EXPERIENCE	Postdoctoral fellow in computational physics CTCP, Massey University, Auckland, New Zealand • Research area: Quantum Monte-Carlo study of superfluids	May 2017 – Dec 2019
	Postdoctoral researcher Department of Physics, the University of Tokyo, Japan • Research area: Dynamics of dipolar ultracold quantum gases	May 2015 – Apr 2017
	Visiting scientist Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany • Research area: Non-equilibrium and relaxation dynamics of degenerate Fermi gases	May 2014 – Apr 2015
RESEARCH	<ul style="list-style-type: none">• Relevant expertise: Quantum physics, statistical mechanics, complex systems, Monte-Carlo methods, time-integration of PDEs,• Research papers: 9 Publications, all publicly available on arXiv• Collaborations: Univ. of Otago (NZ), MPIPKF (Germany), Univ. Hamburg (Germany)	
EDUCATION	ICFO - The Institute of Photonic Sciences, Castelldefels (Barcelona), Spain • PhD in Photonics (cum laude), advisor: prof. Maciej Lewenstein • Thesis: <i>Dynamics of ultracold Fermi gases</i>	2008 – 2014
	Leibniz University Hannover, Hannover, Germany • Physics Diploma (5 years program, M.Sc. equivalent) • Thesis: <i>Spinor condensates beyond the single-mode approximation</i>	2002 – 2008
ACTIVITIES	<ul style="list-style-type: none">• Volunteer for <i>Science Dialogue</i>, lectures at high schools in Japan• Referee for Nature Physics• Organizer of U Hamburg/ICFO joint workshop on ultracold atoms• Organizer of the weekly group seminar, Lewenstein group, (ICFO)• Teaching assistant, Leibniz Universität Hannover, Germany	2016-2017 2014 2012 2008-2014 2003-2007
AWARDS AND FELLOWSHIPS	<ul style="list-style-type: none">• FPI doctoral fellowship (Spain)• JSPS Postdoctoral Research Fellowship (Japan)• JSPS Grant-in-aid (¥1,600,000)	2009-2013 2015-2017 2015-2017