

RESUME

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| 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 dataScientific computing, Monte-Carlo simulations, time-series analysisNumerical modelling of partial differential equationsSystems: Windows, LinuxProgramming languages: FORTRAN, Matlab, Mathematica, Python, SQLTools: Git, LaTeX, cmake, SGE, slurmHigh-Performance Computing: MPI, OpenMP, SGE, slurmLanguages: German (native), English (fluent), Spanish (fluent), Japanese (basic) | |
| EXPERIENCE | <p>Postdoctoral fellow in computational physics CTCP, Massey University, Auckland, New Zealand</p> <ul style="list-style-type: none">Research area: Quantum Monte-Carlo study of superfluids | May 2017 – Dec 2019 |
| | <p>Postdoctoral researcher Department of Physics, the University of Tokyo, Japan</p> <ul style="list-style-type: none">Research area: Dynamics of dipolar ultracold quantum gases | May 2015 – Apr 2017 |
| | <p>Visiting scientist Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany</p> <ul style="list-style-type: none">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 arXivCollaborations: Univ. of Otago (NZ), MPIKF (Germany), Univ. Hamburg (Germany) | |
| EDUCATION | <p>ICFO - The Institute of Photonic Sciences, Castelldefels (Barcelona), Spain</p> <ul style="list-style-type: none">PhD in Photonics (cum laude), advisor: prof. Maciej LewensteinThesis: <i>Dynamics of ultracold Fermi gases</i> | 2008 – 2014 |
| | <p>Leibniz University Hannover, Hannover, Germany</p> <ul style="list-style-type: none">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 JapanReferee for Nature PhysicsOrganizer of U Hamburg/ICFO joint workshop on ultracold atomsOrganizer 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 |