

Curriculum Vitae

Personal Data

Name	Christian Ecker
Date of birth	25 September 1982
Nationality	Austrian citizen
Marital status	married, one child
Email	ecker@itp.uni-frankfurt.de

Education

Apr 2014 – Sep 2018	TU-Wien PhD in Theoretical High Energy Physics, 7 Sep 2018 PhD Thesis: "Entanglement Entropy from Numerical Holography" Supervisor: Daniel Grumiller
Oct 2005 – Jun 2013	TU-Wien MSc in Theoretical Solid State Physics, 24 June 2013 Master Thesis: "Continuous-Time Quantum Monte Carlo" Supervisor: Karsten Held
Sep 2000 – Jul 2004	HTL Ottakring , Vienna Secondary College of Mechanical Engineering

Employment

since Jul 2020	Goethe University Institute for Theoretical Physics, Postdoc
Oct 2018 – Jun 2020	Utrecht University Institute for Theoretical Physics, Postdoc
Apr 2014 – Sep 2018	TU-Wien Institute for Theoretical Physics, Project Assistant (PhD student)
Mar 2005 – Apr 2014 (part-time, 20h/week)	Siemens AG Austria , Vienna Engineering Department, Finite Element Analysis of Railway Vehicles
Aug 2004 – Feb 2005	Military Service , Klosterneuburg, Austria

Research Visits

Apr 2017 – Jul 2017	University of Barcelona (Host: David Mateos) Non-Conformal Plasma Formation, Numerical Holography
Sep 2016 – Dec 2016	University of Helsinki (Host: Aleksi Vuorinen) Applications of Holography to Neutron Star Physics

Teaching

Oct 2020 – Feb 2021	<i>Tutor for Introductory Course on General Relativity</i> Lecture by Prof. Luciano Rezzolla, Goethe University, Germany
16–20 Sep 2019	<i>Lecture Series on Numerical Holography</i> DKPI Summer School, Zwettl, Austria
12 Apr 2019	<i>Lecture on Numerical Holography</i> TIFR ICTS School, Bangalore, India

Supervising Activities

Mar 2020 – Jun 2020	Jonah Post, Bachelor Student, Leiden University Bachelor Thesis: <i>Lax Entropy Conditions for the One-Dimensional Riemann Problem</i>
	Philipp Stanzer, Graduate Student, TU-Wien

Apr 2016 – Jul 2020	PhD Thesis: <i>Numerical Relativity, Holography and the Quantum Null Energy Condition</i>
Apr 2015 – Mar 2016	Master Thesis: <i>Entanglement Entropy in Heavy Ion Collisions</i>
	Ognen Kapetanowski, Master Student, TU-Wien
Apr 2015 – Jun 2016	Master Thesis: <i>Entanglement Entropy in 2D-Dilaton Gravity</i>

Organisation and Administration

since Oct 2020	Astrophysics Journal Club at Goethe University
Sep 2019 – Jun 2020	Utrecht String Theory Seminar
Mar 2015 – Jan 2016	Vienna Theory Lunch Seminar
Apr 2014 – Oct 2018	Debian Network Administration (hardware/software) at ITP TU-Wien

Awards and Honors

Dec 2020	Main Campus Educator Fellowship, 9600 euros
Feb 4 2020	Marie Skłodowska-Curie Individual Fellowship, H2020-MSCA-IF-2019, 225.933,76 euros
Apr 2014	Selected PhD student in the graduate program Particles and Interactions at Vienna University of Technology.

Selected Presentations

7 Dec 2020	<i>Compact stars made of holographic QCD matter,</i> Palaver WS2020/21, Goethe University Frankfurt, Germany
22 Oct 2020	<i>Compact stars made of holographic QCD matter,</i> Gravity Seminar, University of Southampton, United Kingdom
14 Jul 2020	<i>A Holographic Approach to Dense Matter in Neutron Stars,</i> AstroCoffee Seminar, Goethe University, Germany
25 Oct 2019	<i>Gravitational Waves from Holographic Neutron Star Mergers,</i> Holography: triangle meeting, Amsterdam University, Netherlands
8 Oct 2019	<i>Gravitational Waves from Holographic Neutron Star Mergers,</i> Heavy Ion Coffee, Cern, Switzerland
16–20 Sep 2019	<i>Lectures on Numerical Holography,</i> DKPI Summer School, Zwettl, Austria
17 Jul 2019	<i>Gravitational Waves from Holographic Neutron Star Mergers,</i> Gravity-New perspectives from strings and higher dimensions, Benasque, Spain
12 Apr 2019	<i>Lectures on Numerical Holography,</i> TIFR ICTS School, Bangalore, India
2 Jul 2018	<i>Time Evolution of a Semiholographic Glasma,</i> HoloQuark2018, Santiago de Compostela, Spain
28 Mar 2018	<i>Semi-Holography for Heavy Ion Collisions,</i> String theory seminar, Utrecht University, Netherlands
26 Jan 2018	<i>Quantum Null Energy Condition in Far-From-Equilibrium Systems,</i> Iberian Strings 2018, Granada, Spain

- 27 Sep 2016 *Exploring Nonlocal Observables in Shock Wave Collisions*,
High Energy Physics Seminar, University of Helsinki, Finland
- 16 Jun 2016 *Numerical Relativity & AdS/CFT Correspondence*,
Einstein Toolkit EU School and Workshop, University of Trento, Italy
- 27 Nov 2015 *Shock Wave Collisions and Entanglement Entropy*,
11th Vienna Central European Seminar, University of Vienna, Austria
- 20 Nov 2015 *Entanglement Entropy in Shock Wave Collisions*,
IV Postgraduate Meeting on Theoretical Physics, IFT UAM/CSIC, Madrid, Spain
- 11 Sep 2015 *Holographic Entanglement Entropy from Numerical Relativity*,
Workshop on the Standard Model and Beyond, Corfu Summer Institute, Greece