

Teaching Activities

Roland Donninger

Courses

Recent Courses See <https://ufind.univie.ac.at/en/person.html?id=87799>

VDSP Academy Partial Differential Equations in Mathematical Physics

Summer Term 2021 (4 hrs/week), University of Vienna, with David Fajman

MCMP Seminar

Summer Term 2021 (2 hrs/week), University of Vienna, with David Fajman

Seminar Analysis

Summer Term 2021 (2 hrs/week), University of Vienna, with Gerald Teschl

Seminar Black Holes

Winter Term 2020 (2 hrs/week), University of Vienna, with Andreas Cap

MCMP Seminar

Winter Term 2020 (2 hrs/week), University of Vienna, with David Fajman

Advanced Partial Differential Equations

Winter Term 2020 (3 hrs/week), University of Vienna

Fourieranalysis

Summer Term 2020 (3 hrs/week), University of Vienna

Übungen zu Fourieranalysis

Summer Term 2020 (1 hr/week), University of Vienna

MCMP Seminar

Winter Term 2019 (2 hrs/week), University of Vienna, with David Fajman

Advanced Partial Differential Equations

Winter Term 2019 (3 hrs/week), University of Vienna

PS Advanced Partial Differential Equations

Winter Term 2019 (1 hr/week), University of Vienna

Bachelor Seminar for Teacher Training Program

Winter Term 2019 (1 hr/week)

MCMP Seminar

Winter Term 2019 (2 hrs/week), University of Vienna, with David Fajman

Topics Course Analysis

Summer Term 2019 (4 hrs/week), University of Vienna

MCMP Seminar

Summer Term 2019 (2 hrs/week), University of Vienna, with David Fajman

Seminar Geometry of Black Holes

Summer Term 2019 (2 hrs/week), University of Vienna, with Andreas Cap

Bachelor Seminar

Summer Term 2019 (1 hr/week), University of Vienna, with Jose Romero

Seminar Functional Analysis

Winter Term 2018 (2 hrs/week), University of Vienna, with Gerald Teschl

Übungen zu Höhere Analysis und Differentialgeometrie

Winter Term 2018 (4 hrs/week), University of Vienna

Dispersive wave equations

Summer Term 2018 (4 hrs/week), University of Vienna

Fourieranalysis

Winter Term 2017 (3 hrs/week), University of Vienna

Übungen zu Fourieranalysis

Winter Term 2017 (1 hr/week), University of Vienna

Seminar Functional Analysis

Winter Term 2017 (2 hrs/week), University of Vienna, with Gerald Teschl

Selected Topics in Analysis and PDE – Dispersive Wave Equations

Winter Term 2016 (2 hrs/week), University of Bonn

Master Thesis Seminar

Summer Term 2016 (2 hrs/week), University of Bonn

Graduate Seminar on Advanced Topics in PDE

Summer Term 2016 (2 hrs/week), University of Bonn, with Herbert Koch and Christoph Thiele

Selected Topics in Analysis and PDE

Winter Term 2015 (2 hrs/week), University of Bonn

Master Thesis Seminar

Winter Term 2015 (2 hrs/week), University of Bonn

Graduate Seminar on Advanced Topics in PDE

Winter Term 2015 (2 hrs/week), University of Bonn, with Herbert Koch and Christoph Thiele

Graduate Seminar on Analysis

Summer Term 2015 (2 hrs/week), University of Bonn, with Herbert Koch

Graduate Seminar on Advanced Topics in PDE

Summer Term 2015 (2 hrs/week), University of Bonn, with Herbert Koch and Christoph Thiele

Graduate Seminar on Advanced Topics in PDE

Winter Term 2014 (2 hrs/week), University of Bonn, with Herbert Koch and Christoph Thiele

Exercises Elliptic partial differential equations

Summer Term 2014 (2 hrs/week), EPF Lausanne

Exercices Analyse I pour Génie Mécanique

Winter Term 2013 (2 hrs/week), EPF Lausanne

Exercises Elliptic partial differential equations

Summer Term 2013 (2 hrs/week), EPF Lausanne

Exercises Elliptic partial differential equations

Summer Term 2012 (2 hrs/week), EPF Lausanne

Exercises Measure theory and integration

Winter Term 2011 (2 hrs/week), EPF Lausanne

Exercises Partial differential equations

Summer Term 2011 (2 hrs/week), EPF Lausanne

Scientific computing

Summer Term 2008 (2 hrs/week), University of Vienna, with Michael Pürer

Theoretisch-physikalisches Praktikum (Computermethoden)

Winter Term 2007 (2 hrs/week), University of Vienna, with Michael Pürer

Theoretisch-physikalisches Praktikum (Computermethoden)

Summer Term 2007 (2 hrs/week), University of Vienna, with Michael Pürer

Theoretisch-physikalisches Praktikum (Computermethoden)

Winter Term 2006 (2 hrs/week), University of Vienna, with Michael Pürer

Theoretisch-physikalisches Praktikum (Computermethoden)

Summer Term 2006 (2 hrs/week), University of Vienna, with Michael Pürer

Theoretisch-physikalisches Praktikum (Computermethoden)

Winter Term 2005 (2 hrs/week), University of Vienna, with Michael Pürer

Proseminar Höhere Analysis für LAK

Winter Term 2005 (2 hrs/week), University of Vienna

Theoretisch-physikalisches Praktikum (Computermethoden)

Summer Term 2005 (2 hrs/week), University of Vienna, with Michael Pürer

Proseminar Wahrscheinlichkeitstheorie für LAK

Summer Term 2005 (2 hrs/week), University of Vienna

Theoretisch-physikalisches Praktikum (Computermethoden)

Winter Term 2004 (2 hrs/week), University of Vienna, with Michael Pürrer

Supervision of Theses

Master Thesis “Mathematische Grundlagen der Schrödingergleichung für das Wasserstoffatom” by Barbara Mayer, 2026

Master Thesis “Kugelflächenfunktionen” by Christina Oser, 2026

Bachelor’s Thesis “Die isoperimetrische Ungleichung” by Sophia Schmerlaib, 2026

PhD Thesis “On Stable Self-Similar Blowup Beyond Light Cones in Nonlinear Wave Equations” by Matthias Ostermann, 2025

Master Thesis “On the blow-up for the L^2 critical power-nonlinear Schrödinger equation” by Lara Lichtnecker, 2025

Master Thesis “Singularitäten in der komplexen Analysis” by Tanja Nowak, 2024

PhD Thesis “On Optimal Blowup Stability for Nonlinear Wave Equations” by David Wallauch-Hajdin, 2023

Master Thesis “Foundations for a forward stability analysis of wave maps on the future light cone via hyperboloidal coordinates adapted to self-similarity” by Andras Bonk, 2023

Bachelor’s Thesis “Die Lorentz-Gruppe” by Desiree Steininger, 2022

Bachelor’s Thesis “On solutions of classical Yang-Mills equations” by Gunther Wirthumer, 2021

Master’s Thesis “The Wave Equation in Hyperboloidal Similarity Coordinates” by Matthias Ostermann, 2020

PhD Thesis “Optimal blowup stability for the critical wave equation” by Ziping Rao, University of Vienna, 2019

Master’s Thesis “Blowup for the Klein-Gordon equation” by David Wallauch, University of Vienna, 2019

Bachelor’s Thesis “Der Differentialformenkalkül und Elektrodynamik” by David Schaubmair, University of Vienna, 2019

Bachelor’s Thesis “Der Begriff des Hilbertraums in der Quantenmechanik” by Ines Gabler, University of Vienna, 2019

Bachelor’s Thesis “Drehimpuls in der Quantenmechanik” by Elias Liedl, University of Vienna, 2019

Bachelor’s Thesis “The wave equation” by Aymane Amine, University of Vienna, 2019

- Bachelor's Thesis** "Littlewood's three principles" by Jakob Holböck, University of Vienna, 2019
- PhD Thesis** "Stable blow-up for the wave maps and the cubic wave equation" by Athanasios Chatzikaleas, University of Bonn, 2018
- Bachelor's Thesis** "Hardy-Littlewood Maximalfunktion" by Alina Kadluba, University of Vienna, 2018
- Bachelor's Thesis** "Hardy's Inequality" by Luigi Roberti, University of Vienna, 2018
- Bachelor's Thesis** "Der eindimensionale quantenmechanische harmonische Oszillator" by Benjamin Lux, University of Vienna, 2018
- Bachelor's Thesis** "Der Minkowski Raum" by Bernhard Berger, University of Vienna, 2018
- Bachelor's Thesis** "Fourier Restriction" by Josef Greilhuber, University of Vienna, 2018
- Master's Thesis** "Spectral Properties of Schrödinger-Type Operators" by Thomas Boddendorfer, University of Bonn, 2017
- Master's Thesis** "Time-like Minimal Surfaces in Minkowski Space" by Ziping Rao, University of Bonn, 2016
- Bachelor's Thesis** "Volterra Iteration and Applications" by Alexandra Shamraeva and Anassé N'Cho, EPF Lausanne, 2014
- PhD Thesis** "Stable blow up dynamics for the radial wave equation with focusing power type nonlinearities" by Birgit Schörkhuber, co-advised with Ansgar Jüngel, TU Vienna, 2013
- Bachelor's Thesis** "La méthode du point col (The method of steepest descent)" by Jonathan Droxler, EPF Lausanne, 2011
- Master's Thesis** "Nonlinear wave equations" by Jonathan Rochat, co-advised with Joachim Krieger, EPF Lausanne, 2011
- Master's Thesis** "Linear stability for self-similar wave maps" by Birgit Schörkhuber, co-advised with Peter C. Aichelburg, University of Vienna, 2010