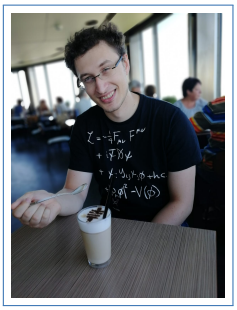
Jovan Odavić

Curriculum Vitae

✉ *dzovan90@gmail.com*



Education

2015–2019 **PhD**, *RWTH Aachen University*, Institut für Theorie der statistischen Physik A, *cum laude*
Aachen, Germany

2012–2014 **MSc**, *Université de Cergy-Pontoise*, Theoretical Physics and Applications to Complex Systems
Paris, Île-de-France, France

2009–2012 **BCs**, *University of Novi Sad, Faculty of Sciences, Department of Physics*, Novi Sad, Republic of Serbia

Research experience

2020- **Postdoctoral researcher**, *Institut Ruđer Bošković*, Zagreb, Croatia

2015-2019 **PhD Thesis**, *RWTH Aachen University*, Institut für Theorie der statistischen Physik A - thesis title: 'Density oscillations of one-dimensional correlated electron systems from Density Functional Theory'
Aachen, Germany

2014 **Master Thesis**, *Université Paris-Sud 11*, The Laboratory of Theoretical Physics and Statistical Models (LPTMS) - thesis title: 'Universal properties of 2D statistical models at the critical point: a Conformal Field Theory approach'
Orsay, Île-de-France, France

Teaching Experience

2018–2019 **RWTH Aachen University**, *Teaching assistent (TA), Institute of Condensed Matter Physics*, Statistical Physics BSc course
Prof. Dr. S. Wessel

2016–2017 **RWTH Aachen University**, *Teaching assistent (TA), Institut für Quantentinformation*, Theoretical Classical Mechanics BSc course
Prof. Dr. F. Hassler

2016–2016 **RWTH Aachen University**, *Teaching assistent (TA), Institute of Condensed Matter Physics*, Statistical Physics BSc course
Prof. Dr. S. Wessel

2015–2016 **RWTH Aachen University**, *Teaching assistent (TA), Institut für Theorie der statistischen Physik*, Statistical Physics BSc course
Prof. Dr. H. Schoeller

2015–2015 **RWTH Aachen University**, *Teaching assistent (TA), Institut für Theorie der statistischen Physik*, Quantum Mechanics BSc course
Prof. Dr. H.-J. Kull

Publications

2021 J. Odavić, P. Mali: *Random matrix ensembles in hyperchaotic classical dissipative dynamic systems*, J. Stat. Mech. (2021) 043204, DOI: 10.1088/1742-5468/abed46

2020 J. Odavić, N. Helbig, V. Meden: *Friedel oscillations of one-dimensional correlated fermions from perturbation theory and density functional theory.* Eur. Phys. J. B(2020) 93: 103 , DOI: 10.1140/epjb/e2020-10127-1

2019 J. Odavić: *Density oscillations of one-dimensional correlated electron systems from density functional theory.* 06/2019, Dissertation / PhD Thesis, Supervisor: Nicole Helbig, Volker Meden, Herbert Schoeller, DOI:10.18154/RWTH-2019-06134

2017 I. Sokolović, P. Mali, J. Odavić, S. Radošević, S. Yu. Medvedeva, A. E. Botha, Yu. M. Shukrinov, J. Tekić: *Devil's staircase and the absence of chaos in the dc- and ac-driven overdamped Frenkel-Kontorova model.* Physical Review E 08/2017; **96**(2), DOI:10.1103/PhysRevE.96.022210

2016 J. Odavić, P. Mali, J. Tekić, M. Pantić, M. Pavkov Hrvojević: *Application of largest Lyapunov exponent analysis on the studies of dynamics under external forces.* Communications in Nonlinear Science and Numerical Simulation 10/2016; **47**, DOI:10.1016/j.cnsns.2016.11.010

2015 J. Odavić, P. Mali, J. Tekić: *Farey sequence in the appearance of subharmonic Shapiro steps.* Physical Review E 05/2015; **91**(5), DOI:10.1103/PhysRevE.91.052904

Relevant Awards

- Best poster award of the 2018 workshop of the RTG 1995 - Quantum Many-body Methods in Condensed Matter Systems
- Merit Scholarship: Bourses master Ile-de-France (scholarship for research master programs in the city of Paris)

Computer skills

- Computer languages: *Fortran*, *Mathematica*, *Python*, *Latex*, *PHP*, *MySQL*, *C* and *C++*

Soft skills

- Teaching (see Teaching Experience)
- Organization (Informal Friday Talks - RWTH Aachen University - doctoral student seminar/journal club)
- Languages: *English* (Cambridge Certificate of Proficiency C2 level), *German* (Intermediate level B1/B2), *French* (Intermediate level B1), *Serbian* Mother tongue

Invited talks

- Institut Rudjer Bošković, Colloquium of the Department Computational Biophysics and the Department of Theoretical and Computational Chemistry, 10/2019, Republic of Croatia
- Institute of Physics Belgrade, Scientific Computing Laboratory (SCL) seminar, Center for the Study of Complex Systems, 09/2019, Republic of Serbia

General interests and leasure

- statistical physics, low dimensional quantum systems, strongly correlated physics, integrable systems, nonlinear dynamics and chaos theory.
- arts and painting

External links

- *https://www.researchgate.net/profile/Jovan Odavic2*
- *https://scholar.google.com/citations?user=cHrYEeQAAAAJ*
- *https://orcid.org/0000-0003-2729-8284*