

OMID CHARRAKH RESUME

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- Date of Birth: 16.07.1990
- Nationality: Iranian



Education

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| 2017–Present | PhD in Philosophy of Physics
➤ Thesis title: Quantum Entanglement: Relativity and Causality
➤ Supervisor: Stephan Hartmann | LMU Munich |
| 2012–2016 | MSc in Physics
➤ Thesis title: On the Reality of the Wavefunction (with distinction)
➤ Supervisor: Stephan Hartmann | LMU Munich |
| 2007–2012 | BSc in Electrical Engineering
➤ Thesis title: Thermal and Quantum Noises in High Frequency Devices (with distinction)
➤ Supervisor: Abdolali Abdipour | Amirkabir University of Technology-Tehran, Iran |

Research Interests

- **Philosophy of Physics:** Foundations of Quantum Mechanics, Relativity, Arrow of Time
- **Philosophy of Science:** Metaphysics of Causation, Laws of Nature, Bayesian Epistemology

Academic Prizes and Scholarships

- December 2017: **The Hanneke Janssen Memorial Prize**
International award for the best Master's thesis in the field of History and Philosophy of Physics.
- August 2017: **Quantum Networks**
Financial award for attending and presenting a poster in the University of Oxford.
- April-December 2017: **MCMP Scholarship**
A nine month scholarship for starting PhD studies.
- October 2007: **Prize for Exceptional Talents**
Awarded to the top 0.1% students in Iranian University Entrance Exam (Concours)

Publications

1. "On the Reality of the Wavefunction"; *To be submitted to Studies in History and Philosophy of Science.*

Presentations and Seminars

1. **Talk:** On the Reality of the Wavefunction, *Utrecht University, Utrecht–December 2017.*
2. **Talk:** On the Reality of the Wavefunction, *Radboud University, Nijmegen–December 2017.*
3. **Poster:** Metaphysical Status of the Wavefunction, *Quantum Networks, Oxford–August 2017.*
4. **Seminar:** Space, Time, and Matter, *Summer School in Philosophy of Physics, Black Forest–July 2017.*
5. **Poster:** On the Reality of the Wavefunction, *Solstice of Foundations, ETH Zurich–June 2017.*
6. **Talk:** On the Reality of the Quantum State, *QCQMB, Prague–June 2017.*
7. **Talk:** On the Problem of the PBR No-Go Theorem. *MCMP, Munich–December 2016.*

Teaching Experience

- SS 2017: Teaching Assistant (Tutor) of **Theoretical Mechanics = T1**, and **Experimental Thermodynamics = E2** given by Prof. Schollwoeck, and Prof. Kersting.
- SS 2016: Teaching Assistant for **Theoretical Electrodynamics = T3**, and **Experimental Thermodynamics = E2** given by Prof. Hoffman, and Prof. Braun.
- WS 2015: Teaching Assistant for **Experimental Mechanics = E1**, **Computational Physics = T0** and **Crash Course in Mathematics** given by Prof. Üdem, Prof. Delft, and Dr. Emmer.
- SS 2015: Teaching Assistant for **Experimental Thermodynamics = E2** given by Prof. Kersting.
- WS 2014: Teaching Assistant for **Computational Physics = T0**, **Experimental Mechanics = E1**, and **Theoretical Quantum Mechanics = T2** given by Prof. Delft, Prof. Gaub, and Prof. Scirinzi.
- SS 2014: Teaching Assistant for **Theoretical Mechanics = T1p**, and **Experimental Thermodynamics = E2** given by Prof. Buchalla, and Prof. Kersting.
- WS 2012: Teaching Assistant for **Theoretical Statistical Mechanics = T4** given by Prof. Sachs.

Work Experience

- Oct 2016–Mar 2017: **Academic Assistant (HiWi)** for Prof. Stephan Hartmann, at MCMP, in Munich.
- Jul 2014–Sep 2015: **Cook** of Olympiadorf Bierstube, in Munich.
- Oct 2008–Jun 2009: **Designer of Electronic Circuits** for a robotics group, in Tehran-Iran.
- Oct 2007–Sep 2008: **Salesman** at a bookstore, in Tehran-Iran.

Languages and Certifications

- Languages:
 1. **Persian** (Native)
 2. **English** (Fluent)
 3. **German** (Elementary)
 4. **Arabic** (Elementary)
- Academic Certifications:
 1. **IELTS**
 2. **GRE Physics Test**

IT Skills

- **MATLAB & Programming**: C++ and QBASIC, Simulink, Symbolic Math toolbox, and PDE toolbox.
- **Engineering Software**: PSPICE, HSPICE, Maple, Xilinx, ADS, Stata, SPSS.