

## Philip Walther (\*12-May-1978 in Vienna, Austria)

Professor of Physics, University of Vienna,  
Research Platform for Testing the Quantum and Gravity Interface (TURIS) and  
Vienna Center for Quantum Science and Technology (VCQ)

Address University of Vienna,  
Quantum Optics, Quantum Nanophysics  
& Quantum Information  
Boltzmanngasse 5, A-1090 Vienna, Austria

ORCID [0000-0002-4964-817X](https://orcid.org/0000-0002-4964-817X)  
Phone +43 1 4277 72560  
Email [philip.walther@univie.ac.at](mailto:philip.walther@univie.ac.at)  
Webpage <http://walther.univie.ac.at/>  
Publications <https://walther.univie.ac.at/publications/>

### Focus of Research

- Photonic quantum computation and quantum simulation
- Quantum-enhanced secure computing
- Development of scalable quantum photonic technology
- Experimental investigation of the interface between quantum physics and gravity

### Education

2012 Habilitation in Quantum Optics, Faculty of Physics, University of Vienna, Austria  
2005 PhD (Dr. rer. nat.) in Physics, University of Vienna, Austria (with A. Zeilinger)  
2002 Diploma (Dipl.-Ing.) in Chemistry, Vienna University of Technology, Austria (with K. Schwarz)

### Career History

Since 2017 Speaker of Research Platform TURIS, Faculty of Physics, University of Vienna  
Since 2015 Professor of Physics, Faculty of Physics, University of Vienna  
Since 2013 Head of the Quantum Optics, Quantum Nanophysics, Quantum Information Group,  
Faculty of Physics, University of Vienna  
2014 – 2018 Vice-Dean of the Faculty of Physics, University of Vienna  
2013 – 2015 Associate Professor (tenured), Faculty of Physics, University of Vienna  
2011 – 2012 Assistant Professor (tenure-track), Faculty of Physics, University of Vienna  
2008 – 2011 Assistant Professor (Univ.-Ass.) Faculty of Physics, University of Vienna  
2005 – 2008 Postdoctoral Researcher, Department of Physics, Harvard University, USA  
(with M. Lukin)

## Honors and Awards

2019	Fellow of the Optical Society of America (OSA)
2015	Fellow of the American Physical Society (APS)
2014	Recognition Award for Science by the Lower State Austria
2014	Visiting Professor Fellowship by the Brazilian Federal Government
2011	Vienna Funding Award in Science (Förderungspreis der Stadt Wien)
2011	START Prize, Austrian Ministry of Science and Education (BMWF)
2009	Fresnel Prize, European Physical Society (EPS)
2006	Prize for outstanding academic performance, University of Vienna
2005	Loschmidt Prize, Chemical-Physical Society of Vienna

## Memberships

2014	Austrian Academy of Sciences - "Junge Akademie" (Young Academy), Member
2012 – 2017	The Global Young Academy, Member
2007 – 2012	The German Young Academy at the Berlin-Brandenburg Academy of Sciences and the German Academy of Natural Scientists Leopoldina, Alumni Member

## Editorial Boards

2016	Journal of Optics, Guest Editor
2014 –	Nature Publishing Group "Quantum Information", Associate Editor
2014 – 2015	Nature Publishing Group "Scientific Reports", Associate Editor

## Institutional Responsibilities

Since 2018	Member of the Doctoral Advisory Board, Faculty of Physics, University of Vienna
Since 2012	Member of the Vienna Center for Quantum Science and Technology (VCQ)
Since 2012	Member of the Committee for the Vienna Doctoral Training Center on Complex Quantum Systems (CoQuS), Faculty of Physics, University of Vienna

## Other Activities

2017	Co-Founder of the research platform TURIS
------	---

## Publications, Patents and Grants

More than 70 publications (18 in Science and Nature publishing group magazines), and 4 patents. The current h-index is 28 with more than 7000 citations. There have been more than 100 invitations to international conferences, workshops, colloquia and advanced graduate schools. Most of the research is covered by external funding sources.