

**Prof. Guido Pupillo**Nationality: Italian ; **Position:** Distinguished Full Professor (PRCE1), University of StrasbourgPhone: Email: **Professional**

- 2021 – present **Director “CESQ – European Center of Quantum Sciences”**, Univ. Strasbourg  
 2016 – present **Distinguished Full Professor** (Professeur des Universités, Classe Exceptionnelle, PRCE1)  
 2012 – 2016 **Full Professor** (Professeur des Universités, PR1) University of Strasbourg (France) and Director of “Groupe de Physique Quantique” at Institutes IPCMS and ISIS  
 2011 – 2012 **Professor of Physics**, “Associated” to ISIS/University of Strasbourg (France)  
 2011, Apr. **Privat-Dozent (Habilitation) in Theoretical Physics**, University of Innsbruck (Austria)  
 2009 – 2011 **Senior Scientist**, Austrian Academy of Sciences (Austria)  
 2005 – 2009 **Postdoctoral Fellow**, University of Innsbruck (Austria), (w/Prof. P. Zoller)  
 2002 – 2005 **Research Assistant**, University of Maryland, and National Institute of Standards and Technology (NIST), Atomic Physics Division (US), (w/Dr. C. Williams)  
 2001 – 2002 **Research Assistant**, Laboratory for Physical Sciences (LPS), Nanostructures team Maryland (US), (w/Prof. R. Phaneuf)

**Education**

- 2012, January **Qualification** à Professeur des Universités (France)  
 2011, April **Habilitation** in Theoretical Physics, University of Innsbruck (Austria)  
 2005, August **Ph.D.** University of Maryland (UMD), CP (USA). PhD work: National Institute of Standards and Technology (NIST), Gaithersburg, MD (USA), (w/Dr. C. Williams, B.-L. Hu)  
 2001, July **M.Sc. Master (Laurea) cum laude** in Physics, Univ. of Bologna (Italy). (w/Pr. Soldati)

**Selected Prizes / Awards / Fellowships**

- 2012 ERC-StG 2012, European Research Council, “CoDSIM” project  
 2012 ANR « Chair d’Excellence 2012 », Agence National de la Recherche, France  
 2013 Prix “Université de Strasbourg Fondation – Circle Gutenberg” 2013  
 2014 GYA, “Global Young Academy” - Member  
 2014 Young Academy of Europe – Member  
 2014 FRIAS – “Freiburg Institute of Advanced Studies” – Senior External Fellow  
 2016 PEDR (2016 - 2020) “Prime d’Encadrement Doctoral et de Recherche”  
 2017 ERC – CoG 2017, European Research Council, “QRC” project (A, reserve list)  
 2019 USIAS – “University of Strasbourg Institute of Advanced Studies” Fellow (with N. Prokof’ev, UMASS)  
 2019 IUF – “Institut Universitaire de France”, Senior Fellow (2019-2024)  
 2020 Cercle Gutenberg – Permanent Member

**Publications in international peer-reviewed journals and citations**

- *Publications:* >90 papers, including: **1 Science, 2 Nature, 1 Nature Phys. 1 Nature Mat., 4 Nat. Comm., 26 PRL, 1 Chem. Rev., 1 Sci. Rep., 7 NJP, 8 PRB, 18 PRA, 1 Ann. Phys.;** 2 book chapters, 1 view point
- *Citations:* > **8500**, **h-index: 43** (source [scholar.google.com](https://scholar.google.com))

**Editorial activities**

- **J. Phys. B:** Guest Editor, special issue “*Addressing quantum many-body phenomena with cold atoms and molecules*” (2016), with K. Ohmori, J. Thywissen, M. Weidemuelle

**Conferences and presentations**

- > **80 invited talks at international conferences**
- > **70 invited talks at academic institutions;** 10 contributed talks to conferences

**Teaching Activities at the University of Strasbourg**

"Solid-state Physics" (3rd year undergraduate); "Atomic and molecular physics" (Master 1);  
 "Many-body theory and applications to condensed matter physics" (Master 2)

**Current group and career path of former group members**

Current group at University of Strasbourg: 1 CNRS Permanent Researcher (CR2), 2 Postdocs (14 total), 4

PhD students (total); 2 Master students (7 total); 2 Visiting Professors (5 total)

**Career paths of former group members:**

Claudiu Genes (M): Max-Planck junior group leader (Erlangen, DE)

Fabio Mezzacapo (M): CNRS permanent researcher (ENS Lyon, FR)

David Hagenmüller (M): CNRS permanent researcher (Strasbourg, FR)

Tao Ying: Associate Professor (Harbin, China)

Rogelio Diaz-Mendez (M): Tenure track position (Florianopolis, Brasil)

Enrique Rico-Ortega (M): Ikerbasque tenure track position (San Sebastian, ES)

Marina Litinskaya (F): Teacher at University of British Columbia (CA)

Luca Lepori (M): Researcher, Istituto Italiano di Tecnologia (Genova, IT)

*Private sector:* Marion Moliner (FR), Edoardo Tignone (IT), Stefan Schütz (DE), Nora Sandor (HR), Davide Vodola (DE)

**Funding ID, awarded grants (selected list)**

2009 Funding (JQI, NIST) in preparation of AFOSR – MURI / EOARD grant - **PI**  
 2011 European Science Foundation (ESF). “Cold and ultracold molecules”- **PI**  
 2011 – 2014 *COHERENCE*, FP7-PEOPLE-2010-ITN on Rydberg physics – external member  
 2012 – 2015 University of Strasbourg, IDEX initiative - **PI**  
 2013 – 2016 EOARD (European Office of Aerospace Research and Development) – **PI**  
 2012 – 2015 ANR « Chair d’Excellence 2012 » - **PI** (declined)  
 2013 – 2018 **ERC-Starting grant 2012**, “ColDSIM” project - **PI**  
 2015 – 2017 ANR-FWF grant “Blueshield”, **co-PI**  
 2015 – 2018 Horizon2020 FET Proactive grant – “RYSQ”, **co-PI**  
 2016 – 2017 Latvia-France collaborative project - “OSMOZE”  
 2016 – 2018 Marie-Curie Intra European Fellowship “ROFERS ” (Dr Nora Sandor)  
 2018 – 2021 QuantERA “Route: Towards room temperature quantum technologies”, **co-PI**  
 2019 – 2022 Labex CSC « Tuning supramolecular interactions with rotating magnetic fields » - **PI**  
 2019 – 2021 USIAS – University of Strasbourg Institute of Advanced Studies – **PI**  
 2019 – 2023 H2020-MSCA-COFUND project « QUSTEC » – **PI and Scientific Coordinator of QUSTEC**  
 2019 – 2024 Institut Universitaire de France IUF – Senior Fellow – **PI**  
 2020 – 2024 MSCA ITN “MOQS – Molecular Quantum Simulations” – **Coordinator**  
 2022 – 2029 PEPR/EQUIPEX+ “aQCess-Atomic Quantum Computing as a Service” – **Co-Coordinator**  
 2022 – 2025 Horizon EU “EuRyQa–European Infrastructure for Rydberg Q computing” – **Coordinator**

**Organization of international conferences / schools (selected list)**

- 2023 EGAS54 – European group on Atomic Systems, June (2023), Strasbourg
- 2020 Meeting GDR DYNQUA, Feb., Strasbourg
- 2019 « Quantum Future Academy », Karlsruhe, Saarbrücken, Strasbourg, Paris Saclay
- 2018, Unistra – Israel, Académie des Science, “Physics symposium”, Oct. (2018), Strasbourg
- 2016 PhD/Master school "Quantum physics in one dimension", Nov. (2016), Strasbourg
- 2015, “XXIII Congrès Général de la SFP”, Membre du comité d'organisation; August (2015)
- 2015, “Symposium on Quantum Physics”, Jan. (2015), Strasbourg, Chair
- 2014, ESF-funded workshop “Quantum Technologies”, Sept. (2014), Strasbourg, Chair
- 2014, PhD/Master school "Nano-Optomechanical Technologies", Sept. (2014), Strasbourg
- 2013, PhD/Master school "Cold Quantum Gases: An introduction", June (2013), Strasbourg
- 2012, ESF-funded workshop “Cold and ultracold molecules”, Nov. (2012), Obergurgl, AT, Chair
- 2011, “Workshop on Coherence and Decoherence at Ultracold Temperatures”, Garching, DE, Chair

**Referee for national and international funding and evaluating institutions**

European Research Council, HCERES (France), Agence Nationale de la Recherche (France), Netherlands Organisation for Scientific Research (Holland), Fonds de la Recherche Scientifique (Belgium), Israel Science Foundation (Israel), National Science Foundation (USA), Royal Academy of Sciences (Sweden), Foundation for Polish Science (Poland), Danish National Research Foundation (Denmark), PRIN (Italy), H2020 EC

**Referee for international journals**

Science, Nature, Nature Phys., Phys. Rev. Lett., Phys. Rev. X, Scientific Reports, Phys. Rev. A, New J. Phys., Eur. J. Phys., Eur. Phys. Lett., J. Phys. B, J. Low Temp. Phys.