

# Francesco Randi

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## Curriculum Vitae

### Personal details

Name Francesco Randi  
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Scholar Francesco Randi

### Education

Jan 2014–Apr 2017 **PhD in Physics**, *University of Trieste*, Italy.  
Supervisors Dr. Daniele Fausti, Prof. Fulvio Parmigiani  
Oct 2014–Mar 2015 **Guest**, *Max Planck Institute for the structure and dynamics of matter*, Hamburg, Germany.  
Supervisor Prof. Dr. Martin Eckstein  
2011–2013 **Master in Condensed Matter Physics**, *University of Trieste*, Italy, 110/110 cum laude.  
2008–2011 **Bachelor in Physics**, *University of Trieste*, Italy, 110/110 cum laude.

### Employment

July 2017–to date **Postdoctoral Research Associate**, *Department of Physics, Princeton University*.  
Sept. 2014, 2015, 2016 **Tutoring of high school students for the “Stage estivo”**, *Physics Department, University of Trieste*.  
Oct.–Dec. 2013 **Pre-PhD contract**, *Elettra Synchrotron Laboratory*, Trieste.  
2007–to date **Occasional collaboration**, *Canalescuola ONLUS*.  
The company works in the field of new technologies in education, with a particular attention to learning disabilities. (Mr. Emil Girardi)

### Co-supervision of students

2014–2016 Students for their master thesis and internships during the bachelor studies  
2012, 2016 High school students for their final year project

### Scholarships

2015 Erasmus+ Traineeship funding for my stay at the MPSD in Hamburg

- 2014–2016 Scholarship from the University of Trieste and the European Social Fund for my PhD
- 2011–2013 Scholarship from the Luciano Fonda University College for Sciences and the Elettra Synchrotron Laboratory for my master in Condensed Matter Physics
- 2008–2011 Scholarship from the Luciano Fonda College for my bachelor studies in Physics

## Publications

- Probing the fluctuations of optical properties in time-resolved spectroscopy, *Phys. Rev. Lett* 119 (19), 187403.
- Bypassing the energy-time uncertainty in time-resolved photoemission, *Phys. Rev. B* 95, 115132 (2017).
- Phase separation in the non-equilibrium Verwey transition in magnetite, *Phys. Rev. B* 93, 054305 (2016).
- The thinnest carpet on the smallest staircase: The growth of graphene on Rh(533), *J. Phys. Chem. C*, 118 (12), 6242-6250 (2014).
- Quantum interferences reconstruction with low homodyne detection efficiency, Esposito et al., *EPJ Quantum Technology* 3:7 (2016).
- Photon number statistics uncover the fluctuations in non-equilibrium lattice dynamics, Esposito et al., *Nat. Comm.* 6 10249 (2015).
- Pulsed homodyne Gaussian quantum tomography with low detection efficiency, Esposito et al., *New J. Phys.*, 16 043004 (2014).

## Public engagement

- 2016–2017 President and co-founder of the Trieste section of the Young Minds project of the European Physical Society
- 2016–2017 President and co-founder of the Science Industries association for the dissemination of science and networking of young researchers.
- Oct. 2012 Astronomy and science laboratory for the children of the school of Stromboli (Sicily), Italy
- 2010–2013 Representative of the group Studenti di Scienze (Science students): interdepartmental seminars and talks for the former Facoltà di Scienze (scientific departments).

## Languages

Italian **Native speaker**  
 English  
 German

## Other

- 2015–2017 **Student representative** *Physics Department and Student Councils of the University of Trieste*
- 2014–2016 **Student representative** *Teachers' Board of the PhD school in Physics at the University of Trieste*