

# Nicola Toschi

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## Education

- Specialization in Medical/Health Physics (2006-2010), University of Rome Tor Vergata, Italy
- PhD in Natural Sciences (Doctor Rerum Naturalium) (1998-2001), Ludwig-Maximilians-Universität/Max Planck Institute of Psychiatry, Munich, Germany
- Master of Science in Mathematical Modeling and Numerical Analysis (1995-1996), University of Oxford, UK
- Bachelor of Science in Physics (1st Class Honors) (1992-1995), Imperial College London, UK

## Work Experience

### National

- Full Professor in Medical Physics (2023-present), University of Rome Tor Vergata, Italy
- Associate Professor in Medical Physics (2015-2023), University of Rome Tor Vergata, Italy
- Research Affiliate (2023-present), IRCSS Fondazione Santa Lucia, Rome, Italy
- Research Fellow (2005-2008), University of Rome Tor Vergata, Italy

### International

- Research Staff Associate Investigator (2018-present), Athinoula A. Martinos Center, Harvard Medical School, USA
- Visiting Assistant Professor in Radiology (2013-2015), Harvard Medical School, USA
- Research Fellow (1998-2002), Max-Planck Institute of Psychiatry, Germany

### National Licensures

- National Scientific Qualification for Full Professorship in Applied Physics and Biomedical Engineering (2017)

### Research Grants (Selection)

- Principal Investigator, BRAINFEDERATION (2024-2029), Italian Industrial Research: €1.575M
- Co-Principal Investigator, DIADEMA (2024-2026), Italian Health Ministry: €989K
- Site-Principal Investigator, AEGEUS (2023-2027), European Commission: Horizon Europe
- Key Person, The Michael J. Fox Foundation for Parkinson's Research (2023-2026)
- Principal Investigator, CROSSBRAIN (2022-2026), European Commission: €4.067M
- Co-Principal Investigator, BRAINSTORM (2023-2026), European Commission: €3.043M
- Key Person, Non-Invasive Microstructural Assessment of Neuroinflammation in Chronic Pain (2023-2027), US Army Medical Research: USD \$1.5M
- Co-Principal Investigator, myFUS (2023-2026), Italian Ministry for Research (PRIN 2022): €150K
- Mentor and Key Person, UltraRadio (2021-2024), Italian Health Ministry: €130K
- Co-Investigator, FUSRadio (2021-2025), Italian Association for Cancer Research: €477K
- Site-Principal Investigator, MNESYS (2022-2025), European Commission Next Generation EU
- Key Person, HEAL-ITALIA (2022-2025), European Commission Next Generation EU
- Key Person, CN1 (Centro Nazionale 1) National Center for HPC, Big Data and Quantum Computing (2022-2025), European Commission Next Generation EU
- Co-Investigator, PLASTICSFATE (2021-2025), European Commission Horizon 2020: €6.783M
- Co-Principal Investigator, EXPERIENCE (2021-2025), European Commission Horizon 2020: €4.446M

### **Supervision and Mentoring**

- PhD Supervision: Supervised over 40 PhD candidates, postdoctoral researchers, and research fellows in fields such as medical physics, artificial intelligence, and biomedical sciences. Collaborated internationally with institutions like Harvard University, MIT, and the University of Cambridge.
- Undergraduate and Postgraduate Mentoring: Successfully supervised numerous students at various levels, contributing to their academic and professional growth.

### **Awards and Achievements**

- Awarded numerous national and international grants and fellowships, including from the NIH, European Commission, and the Michael J. Fox Foundation.

### **Editorial and Reviewer Roles**

- Editorial board member for multiple international journals in medical physics and neuroimaging.
- Served as a reviewer for high-impact journals and research evaluation panels, including national and international funding bodies.

### **Public Engagement and Media Exposure**

- Active in public outreach through media interviews and conferences, discussing advancements in neuroscience, neuroimaging, and AI applications in healthcare.

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Rome, Italy, 5/10/2024

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