

Roland Katz, Dipl.-Ing., PhD

Address: 17 Rue de la Plaine 75020 Paris, France

Phone: 06 75 25 49 80

Mail: rolandkatz@outlook.com

Personal website: rolandkatz.com



After ten years of high-level academic research and teaching, I am now looking for new challenging projects in an innovative environment.

Research and teaching experiences

Research fields	Theoretical and computational physics, open quantum systems, stochastic processes, quark-gluon plasma (link)
Achievements	16 publications (link) / 18 talks (link) in international journals / conferences, complex simulations, supervision of projects, teaching
2021 - Aug. 2022 Nantes, France	Lecturer and researcher – Subatech, Nantes Université Research on quantum/particle physics. 200 hours of lectures and tutorials for undergraduates (L1 to L3). Course units (link): classical and quantum mechanics, mathematics, C and Python programming, biophysics
2018 - 2021 Nantes, France	CNRS postdoctoral researcher – Subatech, Institut Mines-Télécom Research on quantum/particle physics and thesis supervisions
2016 - 2018 São Paulo, Brazil	Postdoctoral researcher – Institute of Physics, Univ. of São Paulo International research projects and complex simulation in C/C++

Other work experiences

Jun. - Aug. 2010 Buc, France	Engineer intern – General Electric Healthcare Design and realization of a mammograph troubleshooting guide (VBA, HTML)
Jun. - Aug. 2009 Paris, France	Intern – Laboratoire Kastler Brossel, Ecole Normale Supérieure Research assistant in a quantum optics experiment
Jan. 2009 Paris, France	Engineer intern – RATP Paris, dept. of telecommunications Realization of an internal audit and presentation to the managers

Education

2012 - 2015 Nantes, France	Institut Mines-Télécom – PhD in Physics Thesis on stochastic/quantum dynamics of heavy quark pairs in a quark-gluon plasma (link). Lecturer of “Quantum physics and nanotechnologies” (32h) for engineering students
2010 - 2012 Lund, Sweden	Lund University, LTH – Engineering diploma T.I.M.E. network double degree. Major in atomic and subatomic engineering physics. Master thesis in theoretical particle physics
2008 - 2012 Lille, France	Ecole Centrale – Engineering diploma Multi-disciplinary engineering: technical and managerial trainings. In parallel: Bachelor of Science in Physics – Université de Lille (2010)
2006 - 2008	Lycée Saint-Louis, Paris – Classes Préparatoires aux Grandes Ecoles

Extracurricular

Photography, astronomy (former chairman of a club, astrophotography), arts, soccer

Technical skills

- * Physical modeling
- * Problem solving
- * Mathematical calculations
- * Numerical analysis
- * Data analysis and interpretation

Programming

Mathematica, C, C++, Python, Fortran, Bash, Matlab, Pack Office, LaTeX, Github

Competencies

- * Public speaking
- * Creative thinking
- * Academic monitoring
- * Group management
- * Scientific reports reading and writing
- * Workshop organization
- * Training design

Languages

Fluent: French, English
Basic: Portuguese, Spanish