

**CURRICILUM VITAE
GUNTHER ROLAND**

EDUCATION

Institut für Kernphysik <i>Ph.D.</i> , 1993 (summa cum laude)	Frankfurt, Germany
Frankfurt University <i>Physics Diploma</i> , 1989 (with distinction)	Frankfurt, Germany

PROFESSIONAL EXPERIENCE

Massachusetts Institute of Technology <i>Postdoctoral Associate</i> , 1993 – 1995	Cambridge, MA
Frankfurt University <i>Research Scientist (Bat Ib)</i> , 1995 – 1999	Frankfurt, Germany
Frankfurt University <i>Wissenschaftlicher Assistent (C1)</i> , 1999	Frankfurt, Germany
European Organization for Nuclear Research CERN <i>Scientific Associate (PSA)</i> , 1999	Geneva, Switzerland
Massachusetts Institute of Technology <i>Assistant Professor</i> , 2000 – 2004 <i>Associate Professor</i> , 2004 – 2007 <i>Associate Professor with tenure</i> , 2007 – 2011 <i>Full Professor</i> , 2011 – present	Cambridge, MA

SELECTED PROFESSIONAL ACTIVITIES

- Co-Spokesperson, sPHENIX collaboration, 2016 – present
- Co-PI, JETSCAPE collaboration, 2016 – present
- Member, Annual Rev. Nucl. Part. Phys. Editorial Board, 2016 – present
- Director, MIT Physics Junior Lab, 2014 – present
- Group leader, MIT heavy-ion group, 2011 – present
- Chair, CMS heavy-ion publication committee, 2012 – 2018
- Member, BNL RHIC Program Advisory Committee, 2012 – 2016
- Co-convener, CMS heavy-ion physics group, 2009 – 2011
- Deputy Spokesperson, Phobos experiment, 2003 – 2011

- Physics Coordinator, Phobos experiment, 2001 – 2011

HONORS, AWARDS AND SELECTED GRANTS

- d'Arbeloff Grant for Excellence in Undergraduate Education, received 2013 and 2017
- MIT MISTI Global Seed Fund Grant, 2010 (MISTI Greater China), 2012 (France), 2015 (Mexico), 2018 (Greater China)
- Fellow of the American Physical Society, 2013
- NEC research award, MIT, 2005
- NSF Information Technology Research Grant “Grid-embedded Interactive Analysis Framework Based on ROOT”, 2003
- NSF Information Technology Research Grant “Multi-cluster Parallel Analysis Tool Based on ROOT”, 2002
- Outstanding Junior Investigator (OJI) Award, U.S. Department of Energy, 2001
- Prize for best Ph.D. thesis at Frankfurt University (Preis der Freunde und Förderer der Johann Wolfgang Goethe Universität), 1993

SELECTED PUBLICATIONS

1. Jet shapes of isolated photon-tagged jets in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV, CMS Collaboration, PRL 122 (2019) 152001
2. Study of jet quenching with Z+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV, CMS Collaboration, PRL 119 (2017) 082301 (PRL Cover)
3. Observation of long-range near-side angular correlations in proton-lead collisions at the LHC, CMS Collaboration, PLB 718 (2013) 795-814.
4. Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$, CMS Collaboration, PLB 718 (2013) 773-794.
5. Observation and studies of jet quenching in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV, CMS Collaboration, PRC 84 (2011) 024906.
6. Collision geometry fluctuations and triangular flow in heavy-ion collisions, B. Alver, G. Roland, PRC 81 (2010) 054905.
7. Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC, CMS Collaboration, JHEP 1009 (2010) 091.
8. The PHOBOS Perspective on Discoveries at RHIC, PHOBOS Collaboration, Nucl. Phys. A 757, 28 (2005)
9. Centrality Dependence of Charged Hadron Transverse Momentum Distributions in d+Au Collisions at $\sqrt{s_{NN}}=200$ GeV, Phobos Collaboration, PRL 91, (2003) 072302.
10. Charged Particle Multiplicity near Midrapidity in Central Au + Au Collisions at $\sqrt{s_{NN}}=56$ GeV and 130 GeV, Phobos Collaboration, PRL 85 (2000) 3100.

Selected high-impact publications with *lead authorship* by my group are listed.