

Biographical Sketch for Salvatore R. Rappoccio

Address

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Professional Preparation

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| Harvard University | Physics 2005 Ph.D. |
| Boston University | Physics 2000, B.A., Mathematics 2000, B.A. |

Appointments

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|---|------------------------------|--------------|
| State University of New York at Buffalo | Assistant Professor | 2012-present |
| Johns Hopkins University | Research Assistant Professor | 2011-2012 |
| Johns Hopkins University | Research Associate | 2007-2011 |
| Lincoln Laboratories of MIT | Staff scientist | 2005-2007 |

Publications

Five most closely related to the proposal :

1. CMS Collaboration, S. Chatrchyan et al., "Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC," Phys. Lett. **B716** (2012) 30-61.
2. CMS Collaboration, S. Chatrchyan et al., "Search for anomalous t t-bar production in the highly-boosted all-hadronic final state," JHEP **1209** (2012) 029.
3. CMS Collaboration, S. Chatrchyan et al., "Measurement of the top quark pair Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification," Phys. Rev. D **84**, 092004 (2011).
4. CMS Collaboration, S. Chatrchyan et al., "Determination of jet energy calibration and transverse momentum resolution in CMS," JINST **6** (2011) P11002.
5. CDF Collaboration, D. Acosta et al., "Measurement of the t t-bar production cross section in p p-bar collisions at $\sqrt{s} = 1.96$ TeV using lepton + jets events and secondary vertex b-tagging," Phys. Rev. D **71**, 052003 (2005).

Synergistic Activities

1. Convener of the “Beyond Two Generations” group at CMS (2012-present); convener of the “Standard Model Jet Substructure” subgroup at CMS (2011-2012); convener of the “Analysis Software Tools” subgroup at CMS (2009-2011).
2. As a graduate student, was responsible for two separate subsystems of the CDF detector on-call operations (the Silicon Readout Controller and the Central Muon Extension).
3. As a graduate student, redesigned the existing Silicon Readout at CDF such that a tracking-based trigger at Level 2 was possible, enabling the use of triggers used in the enormously successful B-physics program at CDF.
4. Co-organizer of the “BOOST” conference series focusing on boosted topologies (2009-present).
5. Extensive outreach activities for the Fermi National Accelerator Laboratory (FNAL) and elsewhere.

Collaborations & Other Affiliations

Member of the Compact Muon Solenoid (CMS) Collaboration : 2008-present
Member of the Collider Detector at Fermilab (CDF) Collaboration : 2000-2006

Graduate and Postdoctoral Advisors

Ph.D. Advisors : Melissa Franklin, Andrew Foland (Harvard University)
Postdoctoral Sponsors : Morris Swartz, Petar Maksimovic (Johns Hopkins University)

Thesis Advisor and Postdoctoral Scholar Sponsor

Total number of postdoctoral fellows and graduate students currently sponsored : 3.
Total number of postdoctoral fellows and graduate students advised in the past : 4.

Ph.D. Thesis Advisor:
G. Hu, K. Nash, M. Osherson, Y. Xin (Johns Hopkins University),
J. Kaisen, M. Alyari (SUNY at Buffalo)

Postdoctoral Scholar Sponsor:
J. Dolen (SUNY at Buffalo)