30W077 Valencia Court #301
Naperville, IL 60563
352-214-7969 (cell)

Sergo Jindariani

sergo@fnal.gov

Education:

- **Ph.D. Experimental Particle Physics** - 2007
  University of Florida - Gainesville, FL
- **B.S. Physics, summa cum laude** - 2001
  Tbilisi State University - Tbilisi, Georgia

Professional Experience:

- **Fermi National Accelerator Laboratory, Batavia IL** **Nov. 2007 – Current**
  Postdoctoral Research Associate
  - CDF and CMS experiments

- **University of Florida, Gainesville FL** **Sep. 2002 – Nov. 2007**
  Research Assistant
  - CDF experiment

- **Joint Institute For Nuclear Research, Moscow Russia** **Sep. 2000 – Jun. 2002**
  Undergraduate Intern

Career Highlights:

- Higgs boson searches at the Tevatron and LHC
- Convener of HWW group at CDF
- Tevatron Higgs exclusion
- Di-boson cross-section measurements
- Silicon detectors, leader of CDF silicon operations group
- Soft QCD, underlying event, jet fragmentation
- Luminosity measurement at CDF

Selected Invited Presentations (invited speaker at over 30 conferences/seminars)**:**

- **"Higgs Boson – on the road to discovery"**
  Lawrence Berkeley National Laboratory, Berkeley CA, April 2011
  Tevatron 25th Anniversary Symposium, FNAL, December 2010
- **"Operational Experience with CDF silicon detectors"**
  Vienna Conference on Instrumentation, Vienna, Austria 2010
- **"High mass Higgs at the Tevatron",**
  Hadron Colider Physics symposium, Evian, France 2009
- **"Soft QCD and the Underlying Event at the Tevatron"**
  International conference on Deep Inelastic Scattering, Madrid, Spain 2009
- **"Studies of Soft QCD"**
  HCP 2007 symposium, Elba, Italy 2007
- **"Two Particle Momentum Correlations in QCD Jets"**
  International Symposium on Multi-particle Dynamics, Rio de Janeiro, Brazil, 2006

Selected Publications:

- **"Combination of Tevatron Searches for the Standard Model Higgs Boson in the WW Decay Mode",** Phys. Rev. Lett. 104, 061802 (2010), with 50+ citations.
- **"Combined Tevatron Upper Limit on Higgs boson production via gluon fusion and Constraints on Fourth-Generation Fermion Models",** Phys. Rev. D. 82, 011102(R) (2010).
- **"Measurement of the W+W- Production Cross-Section and Search for Anomalous Triple Gauge Couplings in Proton-Antiproton Collisions at 1.96 TeV",** Phys. Rev. Lett. 104, 201801 (2010).
- **"Measurement of Event Shapes at the Tevatron",** Phys. Rev. D. 112007, (2011).
- **"Measurement of kT Distributions of Charged Particles in Jets Produced in Proton-Antiproton Collisions at 1.96 TeV",** Phys. Rev. Lett. 102, 232002 (2009).
- **"Two-Particle Momentum Correlations in Jets Produced in Proton-Antiproton Collisions at 1.96 TeV",** Phys. Rev. D. 77, 092001 (2008).

Public Outreach:

- "Ask a Scientist", available to answer questions from the public
- "Saturday Morning Physics", tours of Fermilab facilities
- Tours of CDF collision hall to FNAL users
- Judge at US national Young Physicist Tournament
- Discussion Leader at HCP Summer School
- Organized physics Olympiads for high school students at local and national level

Honors and awards:

- George Soros scholarship for outstanding students
- President's thank you letter for academic excellence and leadership
- Third prize – International Young Physicist Tournament. Silver and bronze medalist – National math and physics Olympiads.