

Updated December 5, 2016

Ph. D.

1. Nick Sereno (1994). *Experimental Studies of Multipass Beam Breakup and Energy Recovery Using the CEBAF Injector Linac*. U. Illinois, Urbana-Champaign.
2. Zenghai Li (1995). *Beam Dynamics in the CEBAF Superconducting Cavities*. College of William and Mary.
3. Mahesh Chowdhary (1996). *Online System Identification for Control System Applications in Particle Accelerators*. Old Dominion University.
4. David Engwall (1998). *High-Brightness Electron Beams from a DC, High-Voltage GaAs Photoemission Gun*. U. Illinois, Urbana-Champaign.
5. Philippe Piot (1999). *High Brightness Electron Beam Diagnostics and their Applications to Beam Dynamics in a Superconducting Energy-Recovering Free-Electron Laser*. Université Joseph Fourier Grenoble I, France.
6. Joseph Grames (2000). *Measurement of a Weak Polarization Sensitivity to the Beam Orbit of the CEBAF Accelerator*. U. Illinois, Urbana-Champaign
7. Raphael Akogyaram (2002). *Basis Function Repetitive and Feedback Control with Application to a Particle Accelerator*. Columbia University.
8. Genfa Wu (2002). *Energetic Deposition of Niobium Thin Film in Vacuum*. Virginia Tech.
9. Tong Wang (2002). *Enhanced Field Emission Studies on Niobium Surfaces Relevant to High Field Superconducting Radio-Frequency Devices*. Virginia Tech.
10. Chagkun Dong (2003). *Field Emission Based Sensors using Carbon Nanotubes*, Old Dominion University.
11. Gianluigi Ciovati (2005). *Investigation of the superconducting properties of niobium radio-frequency cavities*. Old Dominion University.
12. Christopher Tennant (2006). *Studies of Energy Recovery Linac : Jefferson Laboratory*. College of William and Mary.
13. Adam Phillips (2007). *Absorption Studies in Nanoscale Materials through Surface Acoustic Wave Based Techniques*, University of Virginia.
14. Hui Tian (2008). *Surface Studies on Niobium for Superconducting Radio Frequency (SRF) Accelerator*, College of William and Mary.
15. Guimei Wang (2008). *Beam line design and beam physics study of Energy Recovery Linac Free Electron Laser at Peking University*, Peking University.
16. Fay Hannon (2008). *A High Average-Current Electron Source for the Jefferson Laboratory Free Electron Laser*, University of Lancaster
17. Chuyu Liu (2009). *Beam size measurement by optical diffraction radiation and laser system for Compton polarimeter*. Peking University
18. Serkan Golge (2010). *Feasibility and Conceptual Design of a C.W. Positron Source at CEBAF*. Old Dominion University
19. Eman Ahmed (2010). *Spectroscopic Study of Ultracold Rubidium Atoms in an Optical Dipole Force Trap*. Old Dominion University
20. Megh Niroula (2010), *Beyond the Born Approximation: A Precise Comparison of  $e+p$  and  $e-p$  Elastic Scattering in CEBAF Large Acceptance Spectrometer (CLAS)*. Old Dominion University

21. Daniel Bowring (2011), *Multilayer Thin Films for SRF Accelerating Cavities*, University of Virginia
22. Hisham Sayed (2011), *Compensation Techniques in Accelerator Physics*, Old Dominion University
23. Gambhir Ranjit (2011), *Experimental Investigation of Long-lived “ZEKE” Rydberg States in Ultracold Argon*, Old Dominion University
24. Jonathan Dumas (2011), *Feasibility Studies of a Polarized Positron Source based on the Bremsstrahlung of Polarized Electrons*, Universite Joseph Foruier
25. Senthilraja Singaravelu (2012), *Laser Processing of Metals and Polymers*, Old Dominion University
26. Dhawale, Ahwini (2012), *Study of RF structures for Linear Accelerators*, Homi Bhabha National Institute
27. Alicia Hofler (2012), *Optimization Framework for a Superconducting Radio Frequency Gun Based Injector*, Old Dominion University
28. Michael Spata (2012), *Application of Chebyshev Formalism to Identify Non-linear Magnetic Fields in Beam Transport Systems*, Old Dominion University
29. Binping Xiao (2012), *Surface study of niobium for superconducting radio frequency (SRF) accelerators*, College of William and Mary
30. Ryan Bodenstein (2012), *A Procedure for Beamline Characterization and Tuning in Open-ended Beamlines*, University of Virginia
31. James McCarter (2012), *Photocathode Research for Electron Accelerators*, University of Virginia
32. Prateek Maheshwari (2012), *Surface Characterization of Impurities in Superconducting Niobium for Radio Frequency (RF) Cavities used in Particle Accelerators*, North Carolina State University
33. Chen Xu, (2013), *Advanced topographic characterization of variously prepared niobium surfaces and linkage to RF losses*, College of William and Mary
34. Ilkyoung Shinn (2013), *Multipass Beam Breakup Study at Jefferson Lab for the 12 GeV CEBAF Upgrade*, University of Connecticut
35. Milka Nikolic (2013), *Characterization Of Microwave Discharge Plasmas For Surface Processing*, Old Dominion University
36. Ashraf Hasan Farha (2013), *Investigation of NbN, Thin Films and Nanoparticles Grown by Pulsed Laser Deposition and Thermal Diffusion*, Old Dominion University
37. Mahzad BastaniNejad (2013), *Field Emission Studies Toward Improving the Performance of DC High Voltage Photoelectron Guns*, Old Dominion University
38. Suba De Silva (2014). *Crabbing and Deflecting Cavity design for JLab and CERN*. Old Dominion University
39. Liang Zhao (2014). *Surface polishing of niobium for superconducting radio frequency (SRF) applications*, College of William and Mary
40. Christopher Hopper (2015) *Development of Superconducting Spoke Cavities for High-velocity Applications*, Old Dominion University
41. Mohammad Abdullah Mamun (2016) *Thin film studies toward improving the performance of accelerator electron sources*, Old Dominion University

42. Mahmoud Ahmad (2016) *CEBAF upgrade bunch length measurements*, Old Dominion University
43. Milos Basovic (2016) *Secondary electron emission from plasma processed accelerating cavity grade niobium*, Old Dominion University
44. Janardan Upadhyay (2016) *Plasma processing of superconducting radio frequency cavities*, Old Dominion University
45. Alejandro Castilla (2016) *Crabbing System for an Electron-Ion Collider*, Old Dominion University

M.S.

1. Joe Wilson (2003). *Determination of the Optimal Operating Parameters for Jefferson Laboratory's Cryogenic Cold Compressor System*, Christopher Newport University
2. David Smith (2004). *Surface Analysis of acid treated SRF niobium cavities using SIMS and other surface analysis instruments*. Virginia Commonwealth University
3. Deepesh Kumar Koppunuru (2007). *PARMELA-based simulations of Jefferson Lab 10 KW upgrade IR FEL Injector*, Old Dominion University
4. Peter Knudsen (2008). *Process Study for Small Scale 2K Refrigeration Systems*, Old Dominion University
5. Nicolas Ruiz (2008). *Determination of the influence of machining defects on the magnetic field as a part of the design of new electromagnetic components for the energy-duplicating upgrade of the CEBAF accelerator*, University: Escuela Técnica Superior De Ingenieros Industriales De La Universidad Politécnica De Valencia
6. Matthew Wright (2009). *Design and Development of A Helium Purifier*, Old Dominion University

Undergraduate Theses.

Rachel Sparks (2007). *Commissioning of Field Emission Viewer*, Old Dominion University

Wade Brock (2007). *Polarization and Attenuation of Terahertz Radiation*, Old Dominion University

Frederick Wilson (2008). *Investigation of Terahertz Light Source by Implementation of Michelson Interferometry*, Old Dominion University