2017-22 Graduate Alumni

Benjamin Brubaker ’17
Organization: Quanta Magazine
Position: Staff Writer
Dissertation: Correlations in particle production in proton-lead and lead-lead collisions at the LHC
Advisor: Steve Lamoreaux

Stephen Horvat ’17
Dissertation: Measurement of the collision energy dependence of jet-quenching signatures of de-confinement at STAR
Advisor: Helen Caines

Anna Kashkanova ’17
Institution: Max Planck Institute for the Science of Light
Position: Postdoctoral fellow
Dissertation: Optomechanics with Superfluid Helium
Advisor: Jack Harris

Alexey Shkarin ’17
Institution: Max Planck Institute for the Science of Light
Position: Postdoctoral Fellow
Dissertation: Quantum Optomechanics with Superfluid Helium
Advisor: Jack Harris

Saehanseul Oh ’17
Institution: Seoul National University
Position: Assistant Professor
Dissertation: Correlations in particle production in proton-lead and lead-lead collisions at the LHC
Advisor: John Harris

Elena Gramellini ’18
Institution: Fermilab
Position: Fellow Experimental Physicist
Dissertation: Measurement of the negative pion and positive kaon total hadronic cross sections on argon at the LArIAT experiment
Advisor: Bonnie Fleming

Ariana Hackenburg ’18
Institution: Google
Position: Senior Quantitative Researcher
Dissertation: A Model-Independent Search for Dark Matter-Induced Annual Modulation Signal with the COSINE-100 Experiment
Advisor: Bonnie Fleming

Jeremy Cushman ’18
Organization: Amazon
Position: Software Development Engineer
Dissertation: A search for neutrinoless Double-Beta Decay in xenon-136 with CUORE
Advisor: Karsten Heeger

Salvatore Aiola ’19
Organization: Prima Assicurazioni
Position: Data Scientist
Dissertation: Jet and heavy-flavor measurements in pp and Pb-Pb collisions with ALICE
Advisor: John Harris

Charles D. Brown II ’19
Institution: Yale University
Position: Associate Professor of Physics
Dissertation: Optical, Mechanical and Thermal Properties of Superfluid Liquid Helium Drops Magnetically Levitated in Vacuum
Advisor: Jack Harris

Danielle Norcini ’19
Institution: University of Chicago
Position: Granger and KICP Postdoctoral Fellow
Dissertation: A search for f1/2-weak sterile neutrinos and precision measurement of the U-235 antineutrino spectrum with the PROSPET experiment
Advisor: Karsten Heeger

Savannah Thaiss ’19
Institution: Columbia University
Position: Research Scientist
Dissertation: A search associated with the ATLAS detector: Higgs decaying to a tau pair and vector boson decaying leptonically
Advisor: Sarah Demers

James Mulligan ’19
Institution: Lawrence Berkeley National Laboratory
Position: Postdoctoral Associate
Dissertation: Measurements of Pb-Pb Collisions at s(HN) = 1.5, 2.7 TeV with ALICE
Advisor: John Harris

Supraka Balasubramanian ’20
Institution: Fermi National Laboratory
Position: Research Associate
Dissertation: A Differential Cross-Section Measurement of Muon Neutrino-Induced Charged Current Neutral-Flight Production in MicroBooNE
Advisor: Bonnie Fleming

Estella Barbosa de Souza ’20
Institution: Boston Consulting Group
Position: Consultant
Dissertation: A Model-Independent Search for Dark Matter-Induced Annual Modulation Signal with the COSINE-100 Project
Advisor: Reina Maruyama

Christopher Davis ’20
Organization: CarMax
Position: Senior Data Scientist
Dissertation: Search for Neutrinoless Double-Beta Decay with Majoron Emission in CUORE
Advisor: Reina Maruyama

Raymond Ehlers ’20
Institution: Oak Ridge National Laboratory
Position: Postdoctoral Associate
Dissertation: Jet-Hadron Correlations Measured in Pb-Pb Collisions at s = 2.76 TeV with ALICE
Advisor: John Harris

Brooke Russell ’20
Institution: Lawrence Berkeley National Laboratory
Position: Chamberlain Postdoctoral Research Fellow
Dissertation: An Electron Neutrino Appearance Search in MicroBooNE with 5 x 10^19 POT
Advisor: Bonnie Fleming

Shilo Xia ’20
Institution: Lawrence Berkeley National Laboratory
Position: Chamberlain Postdoctoral Research Fellow
Dissertation: Search for Sterile Neutrino Double-Beta Decay and Detector Physics Measurements with the Final EXO-200 Dataset
Advisor: David Moore

Kelly Backes ’21
Organization: MITRE Corporation
Position: Quantum Sensor and Security Specialist
Dissertation: A quantum-enhanced search for dark matter axions
Advisor: Steve Lamoreaux

Jeremy Gaison ’21
Institution: Pacific Northwest National Laboratory
Position: Lee and Pauing Postdoctoral Fellow
Dissertation: Measurement of the Reactor Antineutrino Spectrum of U-235 by PROSPECT and Daya Bay
Advisor: Karsten Heeger

Mariel Pettee ’21
Institution: Lawrence Berkeley National Laboratory
Position: Chamberlain Postdoctoral Research Fellow
Dissertation: Interdisciplinary Machine Learning Methods for Particle Physics
Advisor: Sarah Demers

Luis Saldana ’21
Organization & Institution: The Estes Laser Company Inc., Yale University
Position: Senior Data Scientist, Research Affiliate
Advisor: Karsten Heeger

Christian Weber ’21
Organization: Brookhaven National Laboratory
Position: Postdoctoral Associate
Dissertation: A search for H→ZZ, g→4l using pp collision data at s = 13 TeV with the ATLAS Detector
Advisor: Keith Baker

Yuqi Zhu ’21
Institution: Yale Wright Laboratory
Position: Postdoctoral Associate
Dissertation: Measurement of Correlations Between Neutral Pions and Charged Hadrons in Heavy Ion Collisions with ALICE
Advisor: John Harris

Emma Castiglia ’22
Organization: Meta
Position: Research Data Scientist
Dissertation: Machine Learning for Tau Lepton and the Search for the Associated Production of a Higgs Boson with a Vector Boson, with the Higgs Boson Decaying to a Tau Pair at ATLAS
Advisor: Sarah Demers

Benjamin Foust ’22
Institution: Pacific Northwest National Laboratory
Position: Postdoctoral Researcher
Dissertation: Precise Measurement of the U-235 Antineutrino Energy Spectrum
Advisor: Karsten Heeger

Ako Jamil ’22
Organization: Princeton University
Position: Robert H. Dole Fellow
Dissertation: Rare Event Searches in Liquid Ar at EXO-200 and nEXO
Advisor: David Moore

Emily Kuhn ’22
Institution: NASA Jet Propulsion Laboratory
Position: NASA Postdoctoral Program Fellow
Dissertation: Calibration Instrumentation for the Hydrogen Intensity and Real-time Analysis experiment (HI4A)
Advisor: Laura Newburgh

Michael Oliver ’22
Institution: Yale Wright Laboratory
Position: Postdoctoral Associate (Caines)
Dissertation: Correlations Between Neutral Pions and Charged Hadrons in Heavy Ion Collisions with ALICE
Advisor: John Harris

David Stewart ’22
Institution: Wayne State University
Position: Postdoctoral Associate
Dissertation: Jet to Event Activity Correlations in Small System Collisions at STAR
Advisor: Helen Caines

William Thompson ’22
Organization: Harvard University
Position: Fellow of the Department
Dissertation: Jet to Event Activity Correlations in Small System Collisions at STAR
Advisor: Reina Maruyama