2018

CAREER Fellow, University of Chicago, Enrico Fermi Institute – Advisors: David Miller, Karri DiPetrillo 2023 Ph.D. Physics, Harvard University – Advisor: John Huth 2023 M.S. Physics, Harvard University 2020 Dual B.S. Physics & Mathematics, MIT – Advisors: Yen-Jie Lee, Jesse Thaler 2019 **HONORS** Schmidt AI in Science Fellowship, University of Chicago 2023 Science Fellow, Stanford University (declined) 2023 Frederick Sheldon Traveling Fellowship, Harvard University 2021 Certificate of Distinction in Teaching, Harvard University 2020 Graduate Prize Fellowship, Harvard University 2019 Malcom Cotton Brown Outstanding Senior Experimentalist, MIT Physics Department 2019 **PUBLICATIONS** A data-driven and model-agnostic approach to solving combinatorial assignment problems in 2023 searches for new physics Anthony Badea, Javier Montejo Berlingen arxiv:2309.05728 A search for R-parity-violating supersymmetry in final states containing many jets in 13 TeV pp 2023 collisions with the ATLAS detector ATLAS-CONF-2023-049 The New Small Wheel Electronics 2023 JINST 18 P05012 arxiv:2303.12571 Solving Combinatorial Problems at Particle Colliders Using Machine Learning 2022 Anthony Badea, William Fawcett, John Huth, Teng Jian Khoo, Riccardo Poggi, Lawrence Lee. Phys. Rev. D 106, 016001, arxiv:2201.02205 Jet energy spectrum and substructure in e+e- collisions at 91.2 GeV with ALEPH archived data 2022 Yi Chen, Anthony Badea, Austin Baty, Paoti Chang, Yang-Tien Chien, Gian Innocenti, Marcello Maggi, Christopher McGinn, Dennis Perepelitsa, Michael Peters, Tzu-An Sheng, Jesse Thaler, Yen-Jie Lee. JHEP06(2022)008, arxiv:2111.09914 Measurements of two-particle correlations in e⁺e⁻ collisions at 91 GeV with ALEPH archived data 2019 Anthony Badea, Austin Baty, Gian Innocenti, Marcello Maggi, Christopher McGinn, Michael Peters, Tzu-An Sheng, Jesse Thaler, Yen-Jie Lee. Phys. Rev. Letter 123, 212002, arxiv:1906.00489 **PRESENTATIONS** Lessons for FCC-ee from QCD Measurements in LEP data 2020 4th FCC Physics Workshop, *Virtual* (invited) The World of Open Data: ALEPH at LEP 2020 Snowmass, Virtual (invited) Multi-Differential and Unbinned Measurements of Hadronic Event Shapes 2020 ICHEP. Virtual Advancing Unfolding with Machine Learning 2020 BOOST, Virtual Two-Particle Correlation in Archived ALEPH Data 2019 JETSCAPE, Texas A&M University, TX

Two-Particle Correlation in Archived ALEPH Data

ICHEP, Seoul, Korea

-	Study of Event Shapes and Thrust in Archived ALEPH Data (Poster)
	Quark Matter, Venice, Italy

2018

TEACHING

- <u>Harvard P145</u>, Elementary Particle Physics w/ Melissa Franklin

2020