**PERSONAL INFORMATION**

Name: Michael Pitt

Inspire: INSPIRE-1182145, ORCID: 0000-0003-2461-5985

- **POSITIONS**

2022 – Adjunct researcher
Department of Physics, The University of Kansas, Lawrence, USA
Research topic: QCD and physics of Ultra Peripheral Collisions at the LHC

2022 – Postdoctoral researcher
Department of Physics, Ben-Gurion University of the Negev, Israel
Research topic: Forward physics at the future Electron-Ion Collider (EIC)

2019 – 2022 Senior Research fellow,
EP Department, CERN, Geneva; Switzerland
Research topics: Forward physics with tagged protons, Physics of top quark

2018 – 2019 Postdoctoral researcher
Department of Particle Physics and Astrophysics, Weizmann Institute of Science, Israel
Research topics: Studies of multi-jet QCD events, Particle-Flow using Deep Learning

- **EDUCATION**

2012 – 2018 PhD in Physics: "*Experimental research in particle physics: Characterization of gas-avalanche THGEM particle detector and physics-data analysis with the ATLAS experiment",* CERN-THESIS-2018-224
Department of Particle Physics and Astrophysics, Weizmann Institute of Science, Israel
Supervisors: Prof. Amos Breskin & Prof. Eilam Gross

2009 – 2012 Master: "*Experimental research in particle physics: Detector development and data analysis",* 2012 JINST TH 003
Department of Particle Physics and Astrophysics, Weizmann Institute of Science, Israel

2006 – 2009 Bachelor, Bar-Ilan University, Ramat-Gan, Israel
Double major in Physics and Theoretical Mathematics (with honours)

- **FELLOWSHIPS AND AWARDS**

2019 – 2022 Senior Research fellow, EP Department, CERN, Geneva; Switzerland

2019 Excellence fellowship in data science, Council for Higher Education, Israel.
Up to 3 fellowships of 90K USD for applicants for postdoctoral positions abroad in data science[1].

- **RESEARCH RESPONSIBILITIES**

2023 – 2025 Convenor of the Standard Model QCD sub-group, CMS Collaboration

2022 – Member of ePIC collaboration at EIC

2021 – 2023 Convenor of the Proton Physics Object Group, CMS Collaboration. Member of the CMS Physics Coordination, CERN

2020 – Member of Early-Career Researchers Panel (Israel representative), European Committee for Future Accelerators (ECFA)`

2019 – Member of CMS collaboration at CERN

2019 – Member of the Israel Physical Society (IPS)

2015 – 2017 Scientific coordinator, Dr. Bessie F. Lawrence International Science Summer Institute, Davidson Institute of Science education, Israel

2010 – 2019 Member of ATLAS collaboration at CERN

[1] Data science also includes the following topics: Artificial intelligence, robotics, game theory, stochastic processes, signal processing, bioinformatics, personalized medicine, epidemiology, econometrics, psychometrics, cyber, quantum computations.

- **SUPERVISION OF STUDENTS**

2022 – Graduate Student Advisor, Department of Physics, Ben-Gurion University of the Negev, Israel

2020 – 2023 Supervisor – CERN Summer student program, CERN, Switzerland

2018 – 2019 Graduate Student Advisor, Department of Particle Physics and Astrophysics, Weizmann Institute of Science, Israel. Published a paper in peer-reviewed journal.

- **SELECTED TALKS AT WORKSHOPS AND CONFERENCES**

2023 "Constraining hadronic models using pO collisions at the LHC with proton/neutron tagging", The XVIII International Conference on Topics in Astoparticle and Underground Physics, Vienna

2023 "Physics perspectives of a CMS near-beam proton spectrometer at HL-LHC", Large Hadron Collider Physics Conference, Belgrade

2023 "Physics at the HL LHC with proton tagging", The XXIX Cracow Epiphany Conference, Cracow, Poland

2022 "Recent results on VBF and VBS measurements", QCD@LHC2022, IJCLab, France

2022 "Hard diffraction and proton tagging at the LHC", LHC Working Group on Forward Physics and Diffraction, CERN

2022 "Tagging protons in p-O interactions", LHC Working Group on Forward Physics and Diffraction, CERN

2022 "Searching for anomalous top quark interactions with proton tagging and timing detectors at the LHC", 15$^{th}$ International Workshop n Top-Quark Physics (TOP2022), Durham, UK

2022 "Hard Diffraction and proton tagging at the LHC", Saturation and Diffraction at the LHC and the EIC, ECT*, Italy

2022 "New physics results with the CMS Precision Proton Spectrometer", LHC Seminar, CERN

2022 "LHC Run-3 prospects for Forward Physics and Diffraction", IPS2022, Beer-Sheva, Israel

2021 "Inclusive and diffractive production of top quark(s)", Low-X 2021, Elba Isl., Italy

2021 "Physics perspectives of using the HL-LHC as a photon collider", IPS2021, Israel

2020 "Diffractive physics at the LHC with tagged forward protons", IPS2020, Weizmann Institute of Science, Israel

2019 "Exclusive ttbar production (SM/BSM)", LHC Working group on Forward Physics and Diffraction, CERN

- **TEACHING/EDUCATION ACTIVITIES**

2018 – 2019 Teaching assistant – Practical Deep Learning for Science, Weizmann Institute of Science, Israel

2017 – 2018 Lecturer – Machine learning and Python, Computer Science in Academia and Industry, Davidson Institute of Science education, Israel

- **PUBLIC OUTREACH**

2020 – 2023 CERN official guide, Moderator of Masterclass sessions, CERN

2015 – 2019 Outreach activity in various programs at Davidson Institute of Science, the educational arm of the Weizmann Institute of Science: The international Science Summer Institute, the ALPHA program for the high school students with intellectual giftedness, the Ma'ale program for excelling Arab Students in Science and Engineering, Amos de-Shalit Science Youth camp and the Shalhevet Freier International Physics Tournament.