

PERSONAL INFORMATION

Name: Michael Pitt

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• EMPLOYMENT HISTORY

- 2024 – Experimental Physicist (Research Staff)
EP Department, CERN, Geneva; Switzerland
Research topics: Soft QCD and EW Physics at the LHC, FCC-ee
- 2022 – 2024 Postdoctoral researcher
Department of Physics, The University of Kansas, Lawrence, USA & Department of Physics, Ben-Gurion University of the Negev, Israel (joint affiliation)
Research topic: Forward physics at the LHC and the future Electron-Ion Collider
- 2019 – 2022 Senior Research fellow,
EP Department, CERN, Geneva; Switzerland
Research topics: Diffraction, exclusive processes, forward physics, 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 science¹.

• PROFESSIONAL ACTIVITIES

Research responsibilities

- 2023 – 2026 Co-Convenor of the Standard Model QCD group, CMS Collaboration (member of the CMS Standard Model coordination team).
- 2021 – 2023 Co-Convenor of the Proton Physics Object Group, CMS Collaboration. (member of the CMS Physics coordination team)

Member of scientific panels

- 2020 – 2024 Member of Early-Career Researchers Panel (Israel representative), European Committee for Future Accelerators (ECFA)

Member in scientific collaborations

- 2019 – Member of the CMS collaboration at the LHC, CERN
- 2022 – 2024 Member of the ePIC collaboration at the EIC
- 2012 – 2019 Member of the ATLAS collaboration at the LHC, 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.

Organisation of scientific meetings (including future meetings)

- 2025 The 2025 European Physical Society Conference on High Energy Physics, Marseille, France, Convener of the “QCD and Hadronic Physics” session.
- 2024 The 14th edition of QCD@LHC conference, Freiburg, Germany, Convener of the “Soft interactions, non-perturbative QCD” session.
- 2024 12th Edition of the Large Hadron Collider Physics Conference, Boston, USA Convener of the “QCD Physics” session.
- 2022 Diffraction and Low-X conference 2022, Corigliano Calabro, Italy Convener of the “Photon-photon physics and hard diffraction” session.

• EDUCATIONAL ACTIVITIES

Teaching

- 2020 – 2023 Lead facilitator – CMS Data Analysis School (2020&2023@CERN, 2022@LPC)
- 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

Supervision of students

- 2020 – Supervisor – CERN Summer student program, CERN, Switzerland
- 2022 – 2024 Graduate Student Co-advisor (with Prof. Zvi Citron), Department of Physics, Ben-Gurion University of the Negev, Israel
- 2018 – 2019 Graduate Student Co-advisor (with Prof. Ehud Duchovni), Department of Particle Physics and Astrophysics, Weizmann Institute of Science, Israel. Published a paper in peer-reviewed journal.

Outreach

- 2020 – CERN official guide, Moderator of the Masterclass sessions at CERN

• SELECTED TALKS AT WORKSHOPS AND CONFERENCES (past three years)

- 2025 “Measuring $(g-2)$ of tau via $\gamma\gamma\rightarrow\tau\tau$ at the FCC-ee”, 8th FCC Physics workshop, CERN
- 2024 “Physics of pO collisions at the LHC with proton/neutron tagging”, Diffraction and Low-X conference, Trabia ([APP Supp. 18 \(2025\) 1-A11](#))
- 2024 “CMS Precision Proton Spectrometer results and prospects”, Diffraction and Saturation at the LHC and the EIC, Trento
- 2024 “Diffractive measurements at CMS and TOTEM”, The XXXI International Workshop on Deep Inelastic Scattering and Related Subjects (DIS2024), Grenoble
- 2024 “Physics Perspectives with the ePIC Far-Forward and Far-Backward detectors”, The XXXI International Workshop on Deep Inelastic Scattering and Related Subjects (DIS2024), Grenoble. [PoS\(DIS2024\)259](#)
- 2023 “Coherent VM production at the EIC and LHC”, Workshop on synergies between the EIC and the LHC, DESY
- 2023 “Constraining hadronic models using pO collisions at the LHC with proton/neutron tagging”, The XVIII International Conference on Topics in Astroparticle and Underground Physics, Vienna. [PoS\(TAUP2023\)140](#)
- 2023 “Far-Forward Detector Working Group Update”, EIC User Group Meeting, Warsaw
- 2023 “Probing the exclusive vector meson production at the EIC”, The 2023 EIC Early Career Workshop, Warsaw
- 2023 “Physics perspectives of a CMS near-beam proton spectrometer at HL-LHC”, Large Hadron Collider Physics Conference, Belgrade. [PoS\(LHCP2023\)012](#)
- 2023 “Physics at the HL LHC with proton tagging”, The XXIX Cracow Epiphany Conference, Cracow. [APP Supp. 16 \(2023\) 7-A12](#)
- 2023 Reducing model uncertainties using proton-oxygen collisions with proton/neutron tagging at the LHC, [PoS ICRC2023 \(2023\) 426](#)
- 2022 “Recent results on VBF and VBS measurements”, QCD@LHC2022, IJCLab, France
- 2022 “New constraints on PDFs, strong coupling, and SMEFT results using CMS jet data”, Saturation and Diffraction at the LHC and the EIC, ECT*, Italy
- 2022 “Hard Diffraction and proton tagging at the LHC”, Saturation and Diffraction at the LHC and the EIC, ECT*, Italy