

STEFANO ROBERTO SOLETI

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| CONTACT INFORMATION | Building 50, Room 6026A Lawrence Berkeley National Laboratory 1 Cyclotron Rd Berkeley, 94720 CA, United States | Email: roberto@lbl.gov , roberto@soleti.it Website: https://www.soleti.it GitHub: @soleti Skype: srsoleti |
| POSITION | Owen Chamberlain Postdoctoral Fellow <i>Lawrence Berkeley National Laboratory, Berkeley, CA</i> | Sept. 2019 – present |
| EMPLOYMENT | Postdoctoral Fellow , <i>Harvard University, Cambridge, MA</i> Research Fellow , <i>Harvard University, Cambridge, MA</i> Demonstrator , <i>University of Oxford, Oxford, United Kingdom</i> Graduate Fellow , <i>INFN Frascati National Laboratories, Italy</i> Summer Intern , <i>Fermi National Accelerator Laboratory, Batavia, IL</i> | Apr. – Sept. 2019 Sept. 2017 – Mar. 2019 Sept. 2016 – Jan. 2017 Feb. – Sept. 2015 July – Sept. 2013 |
| EDUCATION | Ph.D. in Particle Physics , <i>University of Oxford, United Kingdom</i> <ul style="list-style-type: none">Thesis: “Search for a low-energy excess of electron neutrinos in MicroBooNE”Advisors: Roxanne Guenette, Alfons Weber Master (<i>Laurea magistrale</i>) in Physics , <i>Sapienza University of Rome, Italy</i> <ul style="list-style-type: none">Thesis: “Study of requirements and performances of the electromagnetic calorimeter for the Mu2e experiment at Fermilab”Advisors: Stefano Miscetti, Cesare Bini Bachelor (<i>Laurea</i>) in Physics , <i>Sapienza University of Rome, Italy</i> | Mar. 2019 Jan. 2015 Oct. 2012 |
| RESEARCH EXPERIENCE | DUNE (2020 – present) <ul style="list-style-type: none">Assembly and testing of the pixelated LArTPC prototype for the near detector.Leading developer of the near detector simulation framework with GPU algorithms. Mu2e (2013 – 2015, 2019 – present) <ul style="list-style-type: none">Monte Carlo samples production manager of the collaboration.Cosmic-ray simulation and background estimate.Full characterization of the first electromagnetic calorimeter prototype. Three test beams and radiation-hardness tests. MicroBooNE (2015 – 2019) <ul style="list-style-type: none">Leading analyzer of the low-energy excess search, main physics goal of the experiment.First measurement of cosmic-ray reconstruction efficiency in a LArTPC.Data-driven measurement of the space-charge effect with tagged cosmic muons. | |

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| HONORS & AWARDS | Owen Chamberlain Fellowship at the Lawrence Berkeley National Laboratory | 2019 – 2022 |
| | Ermenegildo Zegna Founder’s Scholarship | 2015 – 2017 |
| | University of Oxford St Catherine’s College Graduate Scholarship | 2016 – 2017 |
| | INFN Postgraduate Scholarship | 2015 |
| | INFN - Fermilab Summer Student Scholarship | 2013 |
| | University College “Lamaro Pozzani” Scholarship | 2009 – 2014 |
| PROFESSIONAL ACTIVITIES | Simon Fraser University GPU Hackathon | 2021 |
| | Computational and Data Science Training for High Energy Physics, Princeton University | 2019 |
| | International Neutrino Summer School, ICISE, Vietnam | 2016 |
| OUTREACH | Nuclear Science Day for Scouts at the Lawrence Berkeley National Laboratory | 2021 |
| | Developer and maintainer of a neutrino preprints Twitter bot @nuarxiv | 2020 |
| | Re-design of the MicroBooNE collaboration website https://microboone.fnal.gov | 2017 |
| | Marking of British Physics Olympiads papers | 2015 – 2016 |
| | Orientation and welcoming events at the University of Oxford | 2015 – 2016 |
| TEACHING & TUTORING | Supervisor of two students at the University of California - Berkeley for the undergraduate academic research project | 2021 |
| | Tutor of one student for the Harvard University summer student program | 2018 |
| | Demonstrator in the Optics laboratory of the University of Oxford | 2017 |
| | Tutor of one student for the University of Oxford summer student program | 2017 |
| CONFERENCE PRESENTATIONS & TALKS | 9. APS April Meeting 2021 | Apr. 2021 |
| | 8. PHYSTAT-nu 2019, CERN, Switzerland | Jan. 2019 |
| | 7. Neutrino 2018, Heidelberg, Germany | June 2018 |
| | 6. MASS 2018, University of Southern Denmark, Odense, Denmark | May 2018 |
| | 5. DPF 2017, Fermilab, United States | July 2017 |
| | 4. NNN 2016, IHEP, Beijing, China | Nov. 2016 |
| | 3. NuPhys 2015, Queen Mary University, London, United Kingdom | Dec. 2015 |
| | 2. IFAE 2015, University of Rome Tor Vergata, Rome, Italy | Apr. 2015 |
| | 1. SIF National Congress, University of Pisa, Pisa, Italy | Sept. 2014 |