

STEFANO ROBERTO SOLETI

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 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> 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 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>	March 2019 January 2015 October 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.	

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 University of Oxford	2015 – 2016
TEACHING & TUTORING	Supervisor of Ryan Everly and Randy Wang (University of California - Berkeley) for the undergraduate academic research project	2021
	Tutor of Jiayu Jiu (Jilin U.) for the Harvard summer student program	2018
	Demonstrator in the Optics laboratory of the University of Oxford	2017
	Tutor of Monika Venčkauskaitė (Vilnius U.) for the 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