

Curriculum Vitae

<i>Name</i>	Richard Jacobsson
<i>Date of birth</i>	1969-03-04
<i>Nationality</i>	Swedish
<i>Languages</i>	Swedish, English, French, and Italian
<i>Highest degree</i>	Doctor of Philosophy in Physics, Stockholm University, Sweden, 1996
<i>Current position</i>	Principal Staff Physicist, CERN



Current research responsibilities

SHiP

- Project leader for the Comprehensive Design Study

LHCb

- Member of the LHCb Upgrade II calorimeter R&D working group

Other

- Co-proponent of the TauFV experiment

Positions

2019 -	CERN Principal Staff Physicist
2011 - 2019	CERN Senior Staff Physicist
2000 - 2011	CERN Staff Physicist
1998 - 2000	CERN Research Fellow + 9 months extension
1996 - 1997	Post-doctoral position at CERN from Stockholm University
1992 - 1996	Doctorate candidate position at Stockholm University
1991 - 1992	CERN unpaid associate on support from the Stockholm University
1991	CERN Summer student in Particle Physics Experiment division

Principal research activities and roles

2019 -	Co-convener of the LHCb CALO Upgrade II simulation and reconstruction working group
2017 -	Co-proponent of the TauFV experiment at the proposed SPS Beam Dump Facility
2016 -	Member of the Physics Beyond Collider Accelerator committee
2016 -	Co-convener of the CERN SPS Beam Dump Facility working group
2016 -	Co-responsible for the SHiP experiment Comprehensive Design Study
2016 -	SHiP Experiment Safety Officer
2015 -	Project leader/Technical Coordinator of the SHiP experiment
2014 – 2016	Co-responsible for the preparation of the SHiP Technical Proposal and scientific review

- 2014 - **CERN Local Contact person for the SHiP experiment and member of SHiP management**
- 2013 - Proposal of the Search for Hidden Particles (SHiP) experiment (one of the principal proponents)
- 2013 - Readout and communication for Beam Gas Vertex monitor for LHC emittance measurement
- 2013 – 2014 Readout system for the LHCb Forward Shower Counters
- 2009 - 2014 **Coordinator of the operation of the LHCb experiment**
- 2008 - 2014 Readout control system for the LHCb Upgrade
- 2007 - 2009 **LHCb Deputy Commissioning coordinator**
- 2006 - LHCb beam, background, and online luminosity monitoring
- 2005 - LHCb framework for global operational control and data exchange with LHC
- 2005 - 2015 LHCb experiment protection system
- 2000 - **Project leader for LHCb timing, readout control, and online event management**
- 1998 - 2001 e^+e^- --> ZZ production cross-section at LEP2 with the DELPHI experiment
- 1997 - 2000 DELPHI Online data quality monitoring
- 1996 - 1998 Upgrade of DELPHI global readout system
- 1996 - 1997 DELPHI HPC operation
- 1995 - 1996 Missing momentum resolution and $b\bar{b}\gamma$ events as $H\nu\nu$ background in the DELPHI experiment
- 1992 - 1996 Higgs search at LEP1 in $H\nu\nu$ channel with the DELPHI experiment (PhD)
- 1992 DELPHI HPC ageing test beam
- 1991 – 1992 DELPHI HPC calibration and efficiency analysis using MIPS
- 1991 Comparison of hadronic shower simulation CASCADE and GHEISHA for DELPHI (Diploma)

Committees and Reviews

- 2018 - Senior Staff Advisory Committee to the Director General “The Nine”
- 2018 - Member of the Experimental Area Beam Instrumentation Working Group
- 2016 - Member of the Physics Beyond Collider Accelerator committee
- 2013 Invited to ATLAS Operation Workshop (review and talk).
- 2011 - Member of the LHC Beam Operation Committee
2014
- 2010 - Representative as LHCb Run Coordinator in the LHC Machine Committee
2014
- 2010 Invited as external reviewer in the External Machine Protection Review (September 2010) to take LHC beyond 3 MJ. Review panel consisted of eight representatives from FNAL, BNL, GSI, SNS, DESY, CERN/IT, CERN/BE, and me from CERN/PH as the representative of the LHC experiments.

- 2010 Invited as external reviewer of the LHC Machine Protection System
- 2008 - LHCb representative in LHC Program Committee
- 2014
- 2008 Invited as external reviewer of the LHC Beam Loss Monitoring system
- 2008 Invited as external reviewer of the LHC Beam Dump System
- 2008 - LHCb representative in LHC Machine Protection Panel
- 2014
- 2007 Reviewer of the LHCb Beam Conditions Monitor
- 2006 Invited as external reviewer of the LHC Beam Interlock System
- 2005 - Member of the IEEE CANPS committee
- 2009
- 2002 - LHC Experiment-Accelerator Data Exchange Working Group
- 2008
- 2002 - Reviewer in design and production readiness reviews: LHCb VELO FE design review, L0 Trigger
- 2006 electronics design review, L0 Decision Unit design review; RICH FE design review; Alice trigger and timing architecture, LHCb Calorimeter FE Production Readiness Review, LHCb common readout board (TELL1) Production Readiness Review, LHCb Gigabit Ethernet and the Optical Receiver Card Production Readiness Review.

Communication, educational activities, and outreach

- Awards**
 - 2016 Award "Sant'Alfio fonte di pace", Acireale UNESCO Club, Sicily, Italy
 - 2007 European Physical Society Outreach Prize
- 2016 - 2017 Institut des Hautes Etudes pour la Science et la Technologie (IHEST) (2016/2017). Elected delegate of the working group.
- 2011 - CERN Staff Association ambassador for the Swedish delegates to the CERN Council
- 2005 Graphical design and authoring of LHCb brochure and posters
- 2005 Responsible for the Open Day at LHCb/DELPHI at the 50th Anniversary of CERN
- 2000 - 2006 Responsible for LHCb outreach
- 1997 - 1998 Development of particle physics education CD-ROM "A Keyhole to the Birth of Time", J. Gillies & R. Jacobsson
- 1998 Organized and lectured at the interdisciplinary summer school organized by the association "Physique Sans Frontières" in Sarajevo during the ex-Yugoslav conflicts
- 1997 - CERN National Pilot for media and VIP visits and events
- 1993 - Initiator of the first national physics teachers program at CERN and responsible for the longest running annual program ("Swedish Teachers at the Frontiers of Science").
- 1992 - CERN Official Guide

List of conference talks, seminars and publications not included