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## CURRICULUM VITAE - LIDIJA ŽIVKOVIĆ

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### LEADERSHIP EXPERIENCE

2018 – present: Offline b–tagging software, ATLAS experiment, CERN

2015 – present: Institute Representative in TDAQ, ATLAS experiment, CERN

2015 – 2017: *b*-jet Trigger Signature Coordinator, ATLAS experiment, CERN

2012 – 2013: Higgs Group Convener, D0 experiment, Fermilab

2010 – 2011: D0 coordinator in the Vector boson + jets (V+jets) Tevatron working group, Fermilab

2009 – 2012: Vector boson + jets Physics Group Convener, D0 experiment, Fermilab

2011 – 2012: Co-leader of L3/DAQ operations, D0 experiment, Fermilab

2006 – 2010: Missing energy (MET) Group Convener, D0 experiment, Fermilab

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### GRANTS AND FUNDING

2016 – present: Principal Investigator – MESTD, Republic of Serbia, OI171004

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### PROFESSIONAL EXPERIENCE

2016 – 2017: Scientific Associate at CERN

2013 – current: Institute of Physics Belgrade, Serbia; Position: ***Research Professor***

2012 – 2013: LPNHE, Paris Univ VI & VII, CNRS/IN2P3, France; Position: ***Researcher***

2010 – 2012: Brown University USA; Position: ***Research Scientist***

2006 – 2010: Columbia University, USA; Position: ***Research Scientist***

2000 – 2006: Weizmann Institute of Science, Rehovot, Israel; Position: ***Research Assistant***

1994–2000: VINCA Institute of Nuclear Sciences, Belgrade, Serbia; Position: ***Research Assistant***

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## EDUCATION

PhD, 2006; Weizmann Institute of Science, Rehovot, Israel  
Thesis: Search for Higgs boson with OPAL, ATLAS and ILC  
Advisers: Professor Eilam Gross, Professor Ehud Duchovni

M. Sci., 1998; Faculty of Physics, University of Belgrade, Belgrade, Serbia  
Thesis: Zero-degree focusing of channeled ions; Adviser: Dr Nebojša Nešković

B. Sci., 1993; Faculty of Physics, University of Belgrade, Serbia  
Thesis: The neutron transfer in the  $^{238}\text{U} + ^{238}\text{U}$  reaction; Adviser: Dr Dražen Vorkapić

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## AWARDS AND SCHOLARSHIPS

2016 Scientific Associateship for one year stay at CERN

2006 The Haim Holtzman Memorial Prize ([link](#)).

2004 Member of the Weizmann Institute of Science team that was tied for the first place in “blind search” competition organized by the ATLAS experiment ([link](#)).

2001 Ministry of Science, Serbia, The best young scientist award.

1993 Ministry of Science, Serbia, Graduate Scholarship.

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## RESEARCH EXPERIENCE

2017 – present: Trigger contact person for Higgs BSM (HBSM) group (ATLAS experiment).

2015 – present: Trigger studies in a search for  $bA \rightarrow bbb$  production (ATLAS experiment).

2013 – 2014: Identification of boosted, hadronically decaying W bosons (ATLAS experiment).

2018 – present: Software developer for offline  $b$ -tagging (ATLAS experiment).

2017 – present: Trigger menu software developer and online expert (ATLAS experiment).

2013 – current: Software development for the  $b$ -jet triggers, including preparation for run 3 (ATLAS experiment).

2012 – 2014: Determination of the spin and parity of the Higgs boson (D0 experiment, Tevatron combinations)

2006 – 2013: Search for the Higgs boson in the  $WH \rightarrow \ell\nu bb$  and  $H \rightarrow WW \rightarrow \ell\nu jj$  channels (D0 experiment).

2009 – 2011: Search for new phenomena in leptons and jets final states: (1) first generation leptoquarks, (2) diboson resonances, and (3) heavy vector quarks (D0 experiment).

2006 – 2011: Data Quality offline calorimeter expert (D0 experiment).

2008 – 2009: MET studies (ATLAS experiment).

2007 – 2010: Lifetime tests of the Front End Boards for EM Calorimeter (ATLAS experiment).

2000 – 2006: Search for the Higgs boson in the  $ttH \rightarrow tt\tau\tau$  channel (ATLAS experiment).

2001 – 2003: Search for CP violation in the Higgs sector in the MSSM (OPAL experiment).

2002 – 2004: Physics Interplay of the LHC and the ILC.

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## ADDITIONAL ACTIVITIES

Higgs session convener; *Hadron Collider Physics Symposium 2012 Kyoto, Japan*;

Session convener: B-tagging triggers and data quality; *ATLAS Flavour Tagging Workshop, Bonn, Germany, 2016*

Higgs session convener; *DZero Summer Workshop at NIU, DeKalb, Illinois, USA, 2013*

Chairperson Missing ET workshop D0 experiment, Fermilab, USA, 2009

Chairperson V+jets modelling workshop D0 experiment, Fermilab, USA, 2009

Chairperson Missing ET workshop D0 experiment, Fermilab, USA, 2008

2013 – 2014: Co-editor of the Searches for New Particles and Interactions of the final Review of Physics Results from the Tevatron published in 2015

2016 – current: Member of ATLAS Editorial Boards;

2007 – current: Member of several D0 Editorial Boards

2013 – 2017: Member of scientific council, Institute of Physics Belgrade.