

Curriculum Vitae

RNDr. Jiří Kroll, Ph.D.

Personal data

Permanent address: Místecká 451, Prague 9, ZIP: 19900, Czech Republic
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Nationality: Czech

Education and Academic Qualification

2019 – present

Scientist, Department of Detector Development and Data Processing, Institute of Physics of the Czech Academy of Sciences, Czech Republic

2015 – 2018

Postdoctoral Researcher, Department of Detector Development and Data Processing, Institute of Physics of the Czech Academy of Sciences, Czech Republic

2013 – 2014

Postdoctoral Research Scholar, Department of Physics, College of Sciences, North Carolina State University, USA

2009 – 2013

Postgraduate study at Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic; *Branch of study*: Nuclear Physics; *Educational attainment*: Ph.D. (Doctor of Philosophy)

2011

Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic; *Educational attainment*: RNDr. (Doctor of Natural Sciences)

2007 – 2009

Master study at Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic; *Branch of study*: Nuclear and Subnuclear Physics; *Educational attainment*: Mgr. (Master)

2004 – 2007

Bachelor study at Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic; *Branch of study*: General Physics; *Educational attainment*: Bc. (Bachelor)

Work Practice

2016 – present

Activity coordinator of ATLAS ITk Strip testbeam and irradiation group

2015 – 2018

Postdoctoral Researcher at the Institute of Physics of the Czech Academy of Sciences, Czech Republic - R&D of strip silicon sensors and silicon tracking detectors within the CERN project ATLAS ITk, training of hardware skills: laser and beta source testing, wire bonding and electrical testing of silicon sensors, training of software skills: data analysis (C/C++, ROOT, Linux Bash shell) and

hardware control programming (LabVIEW)

2013 – 2014

Postdoctoral Researcher at Los Alamos National Laboratory (LANL), New Mexico, USA – measurement of nuclear reactions within the DANCE collaboration, data analysis (C/C++, ROOT, OriginLab, Linux Bash shell), presentation of results at the international conferences and workshops

2008 – 2014

Assistent at Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic – teaching of students in the nuclear physics laboratory

2011

Member of the Local Organizing Committee of “Third International Workshop on Compound Nuclear Reactions and Related Topics”, September 19-23, 2011, Prague, Czech Republic

Scientific visits (longer than 2 weeks)

2012 – 2014: LANL, New Mexico, USA (DANCE collaboration, 13 months)

2010 – 2012: CERN, Geneva, Switzerland (n_TOF collaboration, 13 weeks)

2015 – present: CERN, Geneva, Switzerland (ATLAS collaboration, 25 weeks)

2015 – present: DESY, Hamburg, Germany (ATLAS collaboration, 22 weeks)

Skills and knowledge

Linguistic knowledge: Czech language – native language, English language – advanced knowledge, German language – basic knowledge

Computer skills:

Operating systems: Linux (advanced user), MS Windows (user)

Programming languages: C/C++, Python, Bash Shell

Development applications: CERN ROOT, LabVIEW, LaTeX, Gnuplot, OriginLab

Servers, databases and web: Apache, PHP, MySQL, JavaScript, HTML

Driving license: category “AM, A1, A2, B1, B” (Czech Republic, USA)

Other qualification

Author or co-author of cca 180 scientific publications with non-zero impact factor focused on detector development, particle and nuclear physics, presentation of scientific results at international conferences, collaboration with leading research institutions in Europe (CERN, Geneva, Switzerland) and USA (Los Alamos National Laboratory, New Mexico, USA).

Individual interests

Research and development of particle detectors, nuclear and subnuclear physics, statistics and probability, administration and development of web applications, sport (ice hockey, soccer, floorball, hockey-ball, swimming), travelling, music, reading.

January 13, 2020
Prague, Czech Republic

Jiří Kroll