

# Miroslav Šimko

Nuclear Physics Institute  
Czech Academy of Sciences  
Na Truhlářce 39/64 180 00 Praha 8, Czech Republic

simko@ujf.cas.cz  
Phone: +420 605 063 354

---

Education	<p><b>2013–present, Ph.D.</b>, Experimental Nuclear and Particle Physics Czech Technical University Faculty of Nuclear Sciences and Physical Engineering <b>Thesis topic:</b> Study of Heavy Flavor at the STAR Experiment</p> <p><b>2011–2013, M.Sc.</b>, Experimental Nuclear and Particle Physics Czech Technical University Faculty of Nuclear Sciences and Physical Engineering <b>Thesis:</b> Design and Optimalization of the Optical Readout System for Electromagnetic Calorimeter FOCAL for the ALICE Experiment</p> <p><b>2008–2011, B.Sc.</b>, Experimental Nuclear and Particle Physics Czech Technical University Faculty of Nuclear Sciences and Physical Engineering <b>Thesis:</b> Detector Control System for the ALICE Experiment</p>
Research and Experience	<p><b>2014–present:</b> Analysis: Reconstruction of the <math>\Lambda_c</math> baryon at the STAR experiment</p> <p><b>2015–present:</b> STAR ZDC on-call expert</p> <p><b>2013–2014:</b> Lawrence Berkeley National Laboratory: Simulations for the Pixel sensors of the HFT at the STAR experiment</p> <p><b>2012–2013:</b> Development of the Prague prototype (scintillator version) of the electromagnetic forward calorimeter FoCal for ALICE, CERN</p> <p><b>2011–2013:</b> Detector Control System expert for the Silicon Drift Detector for the ALICE experiment, CERN</p>
Teaching	<p><b>Czech Technical University</b> <b>Faculty of Nuclear Sciences and Physical Engineering</b> Student Physics Laboratory Practice, 2014–present</p>
Languages and Skills	<p>Czech/Slovak (native), English (fluent), French (intermediate), Japanese (intermediate)</p> <p>Programming in C, C++, Root, Matlab, Mathematica, BASH, PVSS, National Instruments LabView</p> <p>Driver's license B</p>

Outreach	<p><b>Member of the Executive board and active member of the Prague Section of EPS Young Minds</b>  Organization of several activities and grant applications, photography, 2016–present</p> <p><b>Main organizer of CERN Masterclasses at the Czech Technical University</b>, 2014–2016 and an active organizer to present</p>	
Interests	Physics, informatics, photography, hiking, sport (bicycle, ski, canoeing), literature	
Conferences	<p><b>Quark Matter 2018, Venice, Italy</b> May 13–19, 2018  Poster: Measurement of <math>\bar{\Lambda}_c^-/\Lambda_c^+</math> ratio in Au+Au collisions at <math>\sqrt{s_{NN}} = 200</math> GeV with the STAR experiment</p> <p><b>3-Kings Conference 2018, Košice, Slovakia</b> Jan 5, 2018  Talk: Measurement of open charm in relativistic-heavy-ion collisions</p> <p><b>19th Conference of Czech and Slovak Physicists, Prešov, Slovakia</b>  Sep 4–7, 2017  Talk: Measurement of the <math>\Lambda_c</math> baryon at <math>\sqrt{s_{NN}} = 200</math> GeV with the STAR experiment</p> <p><b>EPS Conference on High Energy Physics, Venice, Italy</b> Jul 5–12, 2017  Talk: Measurements of open charm hadron production in Au+Au collisions by the STAR experiment</p> <p><b>Hot Quarks, South Padre Island, Texas, USA</b> Sep 12–17, 2016  Talk: Measurements of open charm hadrons at the STAR experiment</p> <p><b>Quark Matter 2015, Kobe, Japan</b> Sep 27–Oct 3, 2015  Poster: <math>\Lambda_c</math> baryon production at <math>\sqrt{s_{NN}} = 200</math> GeV</p> <p><b>ICPAQGP2015, Kolkata, India</b> Feb 2–6, 2015  Talk: Heavy Flavor Tracker at the STAR Experiment</p> <p><b>18th Conference of Czech and Slovak Physicists, Olomouc, Czech Republic</b> Sep 16–19 2014  Talk: Simulations for the HFT–Pixel detector at the STAR experiment</p> <p><b>Workshop VERTEX2014, Mácha Lake, Czech Republic</b> Sep 15–19, 2014  Poster: Simulations for the HFT–Pixel detector at the STAR experiment</p>	
References	<p>Jaroslav Bielčík (Current supervisor)  Faculty of Nuclear Sciences and Physical Engineering  Czech Technical University in Prague  jaroslav.bielcik@fjfi.cvut.cz</p> <p>Vojtěch Petráček (Former supervisor)  Czech Technical University in Prague  University Director  vojtech.petracek@fjfi.cvut.cz</p>	<p>Zhangbu Xu (Work on STAR ZDC)  Brookhaven National Laboratory  STAR Spokesperson  xzb@bnl.gov</p> <p>Xin Dong (Supervisor at LBNL)  Lawrence Berkeley National  Laboratory  xdong@lbl.gov</p>