



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Budimir Kliček**
Address(es) Trakošćanska 8, 42000 Varaždin, Croatia
Telephone(s) Mobile: (385-91) 529 25 45
Work: (385-1) 456 09 78
E-mail Budimir.Klicek@irb.hr
Nationality Croatian
Date of birth 22.06.1983
Gender Male

Work experience

Dates	From December 2009
Occupation or position held	Researcher / PHD student
Main activities and responsibilities	Junior scientist at the OPERA experiment
Name and address of employer	“Rudjer Boskovic” Institute, Bijenička cesta 54, 10000 Zagreb, Croatia Contact: dr. Mario Stipčević – Tel.: (385-1) 457 12 61 E-mail: Mario.Stipcevic@irb.hr
Type of business or sector	Research institute in the field of natural sciences and technology
Dates	From May 2009 to December 2009
Occupation or position held	Researcher
Main activities and responsibilities	Work on the FP6 project “Upgrade of the Rudjer Boskovic Tandem Accelerator Facility - RBI-AF”
Name and address of employer	“Rudjer Boskovic” Institute, Bijenička cesta 54, 10000 Zagreb, Croatia Contact: dr. Mario Stipčević – Tel.: (385-1) 457 12 61 E-mail: Milko.Jaksic@irb.hr
Type of business or sector	Research institute in the field of natural sciences and technology
Dates	From February 2009 to May 2009
Occupation or position held	Guest researcher
Main activities and responsibilities	Work on the OPERA experiment
Name and address of employer	Instituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati Via E. Fermi 40, I-00044 Frascati (Rome) Italy Contact: dr. Francesco Terranova – Tel.: (39) 33 91 68 37 99 E-mail: francesco.terranova@Inf.infn.it
Type of business or sector	Research institute in the field of subatomic physics
Dates	From September 2007 to October 2008
Occupation or position held	Computer technician, intern
Main activities and responsibilities	Work on the OPERA experiment – frequent visits to INFN-LNGS Institute, Assergi(AQ), Italy in which the OPERA detector is located
Name and address of employer	“Rudjer Boskovic” Institute, Bijenička cesta 54, 10000 Zagreb, Croatia Contact: dr. Mario Stipčević – Tel.: (385-1) 457 12 61 E-mail: Mario.Stipcevic@irb.hr
Type of business or sector	Research institute in the field of natural sciences and technology

Education and training

Dates	From April 2011 to June 2011
Title of training course	Doctoral training programme 2011: Neutrinos in Nuclear-, Particle- and Astrophysics
Principal subjects/occupational skills covered	Theoretical neutrino physics <ul style="list-style-type: none">– neutrinos as dirac and majorana particles, neutrino oscillations, single and double beta decay, neutrinos in big bang, CP violations, solar models, sterile neutrinos Experimental neutrino physics <ul style="list-style-type: none">– general experimental problems in neutrino physics, modern detection techniques– current experiments - KATRIN, SNO, BOREXINO, ICE CUBE, MARE, GERDA– future planned experiments – Neutrino Factory, beta beams, LENA, attempts at detecting relic neutrinos
Name and type of organisation providing education and training	ECT* - European Centre for Theoretical Studies in Nuclear Physics and Related Areas Strada delle Tabarelle 286 I-38050 Villazano (TN), Italy Tel.: (39-0461) 314 730
Dates	From September 2001 to January 2009
Title of qualification awarded	Master of Physics
Principal subjects/occupational skills covered	General physics courses <ul style="list-style-type: none">– general physics, classical mechanics, statistical physics, quantum mechanics, classical electrodynamics Advanced physics courses <ul style="list-style-type: none">– nuclear physics, particle physics, solid state physics Optional courses in the field of high-energy physics <ul style="list-style-type: none">– experimental particle physics practicum, relativistic quantum physics Diploma thesis on the subject “Determination of the electroweak mixing angle by neutrino scattering” <ul style="list-style-type: none">– thesis defended on 06.01.2009 under mentorship of doc. dr. sc. Krešimir Kumerički (thesis is officially considered as defended in 2008)– with the help of dr. Mario Stipčević, the thesis has been applied to the OPERA experiment and the resulting electroweak angle value was consistent with the other independent measurements– the averaged grade for all courses was 4.44 (out of 5), and it is in the top 10 averages of the year 2008
Name and type of organisation providing education and training	Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Fizički odsjek Bijenička cesta 32 10000 Zagreb Tel.: (385-1) 460 55 55
Level in national or international classification	ISCED level 5
Dates	From September 1997 to June 2001
Title of qualification awarded	Computer technician
Principal subjects/occupational skills covered	General <ul style="list-style-type: none">– Croatian language, mathematics, physics, foreign language (German) Occupational <ul style="list-style-type: none">– computer science, C/C++ programming, digital electronics, measurements in electrotechnics
Name and type of organisation providing education and training	Elektrostrojarska škola Varaždin Hallerova aleja 5 42000 Varaždin Tel.: (385-42) 31 34 91 E-mail: ess@vz.t-com.hr
Level in national or international classification	ISCED level 3A
Personal skills and competences	
Mother tongue(s)	Croatian

Other language(s)

Self-assessment

European level (*)

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Team work

- starting from October 2007, I am participating in the OPERA experiment which has a very international character

Computer skills and competences

- proficiency in C and C++ programming languages
- experience with FORTRAN and BASIC programming languages
- experience with Microsoft Windows operating system
 - experience with Microsoft Office suite
- experience with UNIX/Linux operating systems
 - experience with OpenOffice.org suite
 - experience with GNU Compiler Collection (GCC)
- experience with LaTeX typesetting framework
- experience with Wolfram Mathematica application
- experience with ROOT high energy physics data analysis framework

Driving licence

Category A, B

Additional information

Collaboration

- I am a member of the OPERA collaboration (<http://operaweb.lngs.infn.it/>), starting from October 2007

List of publications

1. **The OPERA experiment in the CERN to Gran Sasso neutrino beam**, R. Acquafredda, T. Adam, N. Agafonova, et al. (OPERA) JINST **4** (2009) P04018, arXiv:0903.2973v1
2. **The detection of neutrino interactions in the emulsion/lead target of the OPERA experiment**, N. Agafonova et al. (OPERA), JINST **4** (2009) P06020, arXiv:0903.2973
3. **Measurement of the atmospheric muon charge ratio with the OPERA detector**, N. Agafonova et al. (OPERA), Eur. Phys. J. **C67** (2010) 25-37, arXiv:1003.1907
4. **Observation of a first ν_{μ} candidate in the OPERA experiment in the CNGS beam**, N. Agafonova et al. (OPERA), Phys. Lett. **B691** (2010) 138-145, arXiv:1006.1623
5. **Long term performances of OPERA bakelite RPC system**, A. Bertolin, R. Brugnera, A. Candela, A. Cazes, G. Corradi, M. D'Incecco, F. Dal Corso, S. Dusini, G. Felici, A. Garfagnini, C. Gustavino, B. Klicek, M. Lindozzi, A. Longhin, A. Mengucci, A. Paoloni, G. Papalino, L. Stanco, M. Stipcevic, F. Terranova, M. Spinetti, M. Ventura, L. Votano, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Available online 30 August 2010, ISSN 0168-9002, DOI: 10.1016/j.nima.2010.08.090
6. **Study of neutrino interactions with the electronic detectors of the OPERA experiment**, N. Agafonova et al. (OPERA), New J. Phys. **13** (2011) 053051, arXiv:1102.1882