

Brief Curriculum Vitae: Sonia Bacca

BIOGRAPHICAL DATA

ADDRESS: TRIUMF
4004 Wesbrook Mall, Vancouver, B.C. V6T 2A3
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EMAIL: bacca@triumf.ca
NATIONALITY: Italian, Permanent Resident in Canada
TITLE: Research Scientist, Level III (Equiv. to Associate Prof.)
Adjunct Prof. at the University of Manitoba

EDUCATIONAL HISTORY

2005 Ph.D. in Physics within a “*Co-tutelle de These*” between the
Johannes-Gutenberg Universität Mainz, Germany, and the
Università degli Studi di Trento, Italy
grade excellent/1.0, magna cum laude

2001 Laurea in Fisica (equivalent to M. Sci.)
Università degli Studi di Trento, Italy
grade 110/110 cum laude

PROFESSIONAL EMPLOYMENT HISTORY

2009 - Present Research Scientist, TRIUMF, Canada

2008 - 2009 Research Associate, TRIUMF, Canada

2005 - 2008 Postdoctoral Fellow
Gesellschaft für Schwerionenforschung, Germany

RESEARCH

My research interests lie in nuclear physics, with a focus on the theoretical description of electro-weak observables using ab-initio methods.

I have coauthored 27 research papers, 19 conference proceedings, 8 reports and 1 experimental proposal. I have given more than 80 talks, out of which 33 invited talks at conferences/workshops (including plenary talks at GRC2014, INPC2013, FB2012, FB2009, APSNW 2009) and presented my work in 6 colloquia at physics departments.

AWARDS

2011, Discovery Grants of Early Career Research, NSERC ECR.

PROFESSIONAL ACTIVITIES

Co-organizers of two conferences (NS2014, SSP2015), one summer school (TSI2015) and 6 workshops (four at TRIUMF, one at INT, one at ECT*).

Member of the TRIUMF colloquium organizing committee, TRIUMF Theory Seminars and Nuclear Physics Seminars organizing committee.

2015- ongoing, Member of the Advisory Committee for the International Collaborations in Nuclear Theory at FRIB, US.

2013 - ongoing, Member of the Executive Committee of the American Physical Society Few-Body Topical Group.

2013, Member of the selection Committee for the CINP Graduate Fellowship.

2013 and 2010, Member of the TRIUMF Theory Search Committee.

2012 - 2011, Member of the Judge Committee for the Canadian DNP Thesis Prize.

2010, Member of the External Advisory Committee for the INT 20th-birthday symposium.

Referee for the Physical Review journals, Journal of Physics G, International Journal of Modern Physics E, Few-Body Systems, Zeitschrift für Naturforschung.

Referee for NSF proposals.

STUDENTS SUPERVISED

2015 - ongoing	Tianrui Xu, UBC undergraduate student
2013 - ongoing	Mirko Miorelli, UBC graduate student
2013 - ongoing	Oscar Javier Hernandez, U of Manitoba graduate student
2012-2014	Michael Desrochers, SFU undergraduate student
2009-2010	Raymond Goerke, UBC undergraduate student
2009	Alexander Smith, University of Waterloo undergraduate student
2008-2009	Katy Hally, Acadia University, undergraduate student

POSTDOC SUPERVISED

2012 - ongoing, Dr. Chen Ji, TRIUMF.

2012 - 2013, Dr. Rishi Sharma, TRIUMF, now Assistant Professor at Tata Institute of Fundamental Research, India.

TEACHING ACTIVITIES

Winter Semester 2014 and Winter Semester 2012	Instructor for the PHYS505 course (Nuclear Physics) UBC, Canada and broadcasted to several Canadian Universities
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