

Curriculum vitae: Sonia Bacca

PERSONAL INFORMATION

Name: Sonia Bacca
ORCID number: 0000-0002-9189-9458
Date of birth: January 7th, 1977
Nationality: Italian and Canadian
URL for web site: <https://wwwth.kph.uni-mainz.de/bacca-sonia/>

EDUCATION

2005 PhD (in Co-Tutelle)
Faculty of Natural Sciences, University of Trento/Physics Department/Italy, and
Faculty 08, Johannes Gutenberg University/Institute of Nuclear Physics/Germany
Supervisors: Winfried Leidemann and Hartmuth Arenhövel
2001 Master, Faculty of Natural Sciences, University of Trento/Physics Department/Italy

CURRENT POSITION

2017–now Professor of Nuclear and Hadronic Theory/Faculty 08/
Johannes Gutenberg University (JGU)/Institute of Nuclear Physics/Germany

PREVIOUS POSITIONS

2015 – 2017 Research Scientist (Tenured)/TRIUMF/Theory Group/Canada
2009 – 2015 Research Scientist (Tenure Track)/TRIUMF/Theory Group/Canada
2014 – 2017 Instructor at UBC/Canada
2013 – 2017 Adjunct Professor/University of Manitoba/Canada
2008 – 2009 Postdoc/TRIUMF/Theory Group/Canada
2005 – 2008 Postdoc/Gesellschaft für Schwerionenforschung/Theory Group/Germany

FELLOWSHIPS AND AWARDS

2019 Elected **Fellow of the American Physical Society**, USA
2016 Offer, Associate Professor, Washington University, USA [declined]
2011 Awarded Discovery Grant of Early Career Research, Canada
2002 Awarded scholarship from the Istituto Nazionale di Fisica Nucleare (INFN)

SUPERVISION OF STUDENTS/POSTDOCS

@JGU 6 Postdocs, 3 PhD Students, 1 Master Students
6 Undergraduate Students
@TRIUMF 3 Postdocs, 2 PhD Students, 2 Master Students
6 Undergraduate Students

TEACHING ACTIVITIES

2018–now As faculty member in theoretical physics, one lecture series per semester
(Modern Nuclear Theory, Winter 2021/22, Quantum Mechanics, Summer 2021;
Nuclear Theory, Winter 2020/21, Quantum Mechanics, Summer 2020;
Nuclear Theory, Winter 2019/20; Advanced Quantum Mechanics, Summer 2019;
Nuclear Theory, Winter 2018/19; Block Course in Nuclear Physics, Summer 2018)
Institute for Nuclear Physics/JGU/Germany
2012 – 2016 PHYS505 (Nuclear Physics), Physics and Astronomy Dept./UBC/Canada
(Course held every two years)

ORGANIZATION OF SCIENTIFIC MEETINGS

2023	Co-chair	European Few-body Conference/expected 150 participants/Germany
2018	Organizer	Workshop on Electromagnetic Observables/30 participants/Germany
2018	Organizer	Symmetry Breaking Summer School/40 participants/Germany
2018	IAC Member	Workshop on High Energy Theory and Gender/90 participants/CH
2018	Organizer	INT Program on Fundamental Physics with the Electroweak Probes of Light Nuclei/82 participants/USA
2018	Prog.Cmt.Member	International Few-Body Conference/150 participants/France
2012–	Organizer	Workshop on Ab-initio Techniques in Nuclear Physics
2017		40 participants/Yearly Event/Canada
2016	Organizer	APS/DNP October Meeting/200 participants/Canada
2016	Prog.Cmt.Member	Few-Body Session at the APS April Meeting/40 participants/USA
2016	Session Convener	Gordon Research Conference/80 participants/USA
2015	Organizer	TRIUMF Summer School/50 participants/Canada
2015	Organizer	Symmetries in Subatomic Physics/100 participants/Canada
2014	Organizer	Nuclear Structure Conference/150 participants/Canada
2012	Organizer	ECT* Workshop on Electroweak Probes/28 participants/Italy
2010	Organizer	INT Workshop on Weakly Bound Systems/40 participants/USA

INSTITUTIONAL RESPONSIBILITIES

2019–now	Deputy Director, Mainz Institute of Theoretical Physics/JGU/Germany
2019–now	PRISMA ⁺ Steering Committee Member/JGU/Germany
2018–now	Organizer of the Internal PRISMA Colloquium/JGU/Germany
2018–now	Ex-officio member of the Mainz Institute of Theoretical Physics Board/JGU/Germany
2017–now	Member of the Teaching and Study Committee/JGU/Germany
2010–now	Member of Hiring Committees/JGU and TRIUMF/Germany and Canada
2016–2017	Chair of the Academic Committee/TRIUMF/Canada
2015–2017	Secretary Treasurer of the Canadian Institute of Nuclear Physics/Canada
2014–2017	Chair of the Library Committee/TRIUMF/Canada
2009–2017	Organizer of the Internal Colloquium and Theory Seminar/TRIUMF/Canada

REVIEWING ACTIVITIES

2018 – now	Associate Editor/Frontiers/Nuclear Physics Session/Switzerland
Since 2018	Reviewer/Deutsche Forschung Gemeinschaft/Germany
2017 – 2021	Editorial Board/Journal of Physics G: Nuclear and Particle Physics/UK
2016 – now	Editorial Board/Annual Review of Nuclear and Particle Science/USA
2016 – now	Member of the Experiment Evaluation Committee/TRIUMF/Canada
2016 – 2019	INT National Advisory Committee Member/USA
2015 – 2017	Advisory Committee Member/Collaborations in Nuclear Theory/MSU/USA
2013 – 2016	Executive Committee Member/APS, Few-Body Topical Group/USA
2016, 2017	Panelist/National Science Foundation/USA
Since 2015	Reviewer/Department of Energy/USA
2011, 2012	Member of the committee selecting best thesis awards in nuclear physics/Canada
Since 2010	Referee for Phys. Rev. Lett., Phys. Rev. C, Int. J. Mod. Phys. E, Few-Body Syst.

MEMBERSHIP OF SCIENTIFIC SOCIETY

2009 – Present	American Physical Society
2008 – 2019	Canadian Association of Physicists
2005 – 2008	Deutsche Physikalische Gesellschaft

CAREER BREAKS

Aug 2010 – Sept 2011 (total 14 months) Maternity leave (twins)