

Bacchetta Alessandro - Curriculum Vitae



Department of Physics

University of Pavia

via Bassi 6

27100 Pavia, Italy

Tel. +39 0382 987449

Cell. +39 340 7769998

E-mail alessandro.bacchetta@unipv.it

Born in Borgosesia (Italy) 27/04/1974. Married, 4 children.

URL <http://www.pv.infn.it/~bacchett/>
<http://www.hadronicphysics.it/hasqcd/>

Current/past positions

- 2020-now **Full Professor**, Department of Physics, University of Pavia, **Italy**, SSD: FIS/02 (Theoretical Physics)
- 2015-2020 **Associate Professor**, Department of Physics, University of Pavia, **Italy**, SSD: FIS/02 (Theoretical Physics)
- 2009-2015 **Assistant Professor (Ricercatore Universitario)**, Department of Physics, University of Pavia, **Italy**, SSD: FIS/02 (Theoretical Physics)
- 2010-now **Research Associate**, Italian National Institute for Nuclear Physics (INFN), Pavia, **Italy**
- 2008-2009 Nathan Isgur Distinguished **Post-Doctoral Research Scientist**, Jefferson National Laboratory, Newport News, VA, **USA**
- 2005-2008 **Post-Doctoral Researcher**, Deutsches Elektronen-Synchrotron (DESY), Hamburg, **Germany**
- 2004-2005 A. von Humboldt **Post-Doctoral Researcher**, Department of Physics, University of Regensburg, **Germany**
- 2002-2003 **Post-Doctoral Researcher**, Department of Physics, University of Regensburg, **Germany**

Education

- 1998-2002 **Ph.D.** (Doctoraat) in Physics, Vrije Universiteit Amsterdam, **Nederland**
Supervisor: Prof. P. J. Mulders
- 1993-1998 **Degree in Physics** (Laurea in Fisica), Università degli Studi di Pavia, **Italy**
Supervisor: Prof. S. Boffi. Final grade: 110/110 cum laude.
- 1988-1993 **High School Diploma** (Diploma di Maturità), Liceo Scientifico, Borgosesia, **Italy**
- 1992 **High School Diploma**, East High School, Denver, CO, **USA**

Fellowships, Awards, Qualifications

- 2015 **National Qualification to Full Professor (Professore I fascia)**,
Settore Conc.: A2/02 (Theoretical Physics of Fundamental Interactions), Italy
- 2014 **National Qualification to Associate Professor (Professore II fascia)**,
Settore Conc.: A2/02 (Theoretical Physics of Fundamental Interactions), Italy
- 2008 **National Qualification to Maître des Conférences**, France
- 2008 **N. Isgur Distinguished Fellowship**, Jefferson Science Associates, Newport News, VA, USA
- 2004 **Alexander von Humboldt Fellow**, A. von Humboldt Foundation, Bonn, Germany
- 1993 Admission to **Almo Collegio Borromeo**, Pavia, Italy

Research Performance

Researcher identifiers(s): WoS Researcher ID: F-3199-2012
Scopus ID: 7004059162
Inspirehep ID: INSPIRE-00063618
ORCID: 0000-0002-8824-8355

- **69 publications** in peer-reviewed journals with **over 6500 citations** (inspirehep.net)
- 49 other publications (conference proceedings and white papers). Full List:
<https://inspirehep.net/search?ln=en&ln=en&p=exactauthor%3AA.Bacchetta.1&>
- Hirsch index **h=41** (inspirehep.net database), h=36 (WoS database)
- **5 experimental proposals** approved to run at Jefferson National Laboratory, USA

Over 75 presentations at international meetings, including 7 plenary talks: DIS2019, Torino, Italy; EIC User Group Meeting 2017, Trieste, Italy; DIS2017, Birmingham, UK; Light Cone 2015, Frascati, Italy; Baryons 2013, Glasgow, UK; EuNPC 2012, Bucharest, Romania; MENU 2010, Williamsburg, VA, USA.

Funding ID

- 2019-2023 WP coordinator: **European INFRAIA action** n. 824093 “Strong 2020 – The strong interaction at the frontier of knowledge: fundamental research and applications” [**WP budget: 360 k€**]
- 2019-2022 Supervisor: **Marie Curie Global Fellowship** n. 795475 “SQuHadron” (PI: Andrea Signori) [**262 k€**]
- 2019-2021 Supervisor: **INFN Fellini Fellowship (Marie Curie Cofund** n. 754496) (PI: Yiannis Makris) [**100 k€**]
- 2018-2020 Supervisor: **Marie Curie European Fellowship** n. 793896 “GlueCore” (PI: Miguel G. Echevarria) [**180 k€**]
- 2017-2020 PI: **Italian Ministry of Education FARE project** “3DGLUE – Exploration of the tridimensional distribution of gluons in the proton” [**90 k€**]
- 2015-2020 PI: **European Research Council Consolidator Grant** n. 647981 (ERC CoG 2014) “3DSPIN – 3-dimensional maps of the spinning nucleon” [**1500 k€**]
<http://www.hadronicphysics.it/3d-spin/>
- 2010-2013 Participant: **Italian Project of National Interest** (PRIN 2008): “The structure of the nucleon: transverse momentum, transverse spin and orbital angular momentum” [**35 k€**]
- 2009-2011 Participant: **European Integrated Infrastructure Activity** of the EC FP7 programme HadronPhysics2 (n. 227431), “Study of Strongly Interacting Matter” [**15 k€**]
- 2009-now Participant: **INFN research initiatives** NINPHA “National INitiative in Physics of HAdrons” and AD31 “Structure of hadrons and of cold hadronic matter” [**~200 k€**]
- 2004-2005 PI: **A. von Humboldt Research Grant** [**42 k€**]

Supervision and Teaching Activities

- 2012-now **Lectures** on “Quantum Electrodynamics,” Master in Physics, University of Pavia, Italy
- 2015-now **Lectures** on “Medical Physics,” Harvey Medical School, University of Pavia, Italy
- 2015-now **Lectures** on “Presentation Making,” PhD Schools of University of Pavia, Italy
- 2010-2014 **Lectures** on “Soft skills for graduate students,” PhD in Physics, University of Pavia, Italy

- 2006-2017 **Advanced lectures** on hadronic physics: Temple University (USA), ECT* Trento (Italy), Int. School "E. Fermi" Varenna (Italy), Jefferson Lab (USA), University of Ferrara (Italy), University of Trieste (Italy)
- 1999-2005 **Teaching assistant** for various courses at University of Regensburg (Germany) and Vrije Universiteit Amsterdam (Nederland)
- 2015-now **Supervision** of PhD students: F. Delcarro (now post-doc at Jefferson Lab), S. Cotogno (co-supervision, now post-doc at Ecole Polytechnique, Paris, France), F. Piacenza (now high-school teacher), C. Bissolotti, S. Rodini (co-supervision)
- 2006-now **Supervision** or **Co-supervision** of master students: F. Conti (now Quantitative Analyst at UniCredit), A. Signori (now post-doc at Argonne Nat. Lab. USA), S. Cotogno (now post-doc at Ecole Polytechnique, Paris, France), L. Mantovani (now IT Consultant at Agilex), F. Delcarro (now post-doc at Jefferson Lab, USA), A. M. Ricci (now PhD student at University of Genova), F. Piacenza (now high-school teacher), C. Bissolotti (now PhD student at University of Pavia), L. Manna
- 2009-now **Supervision** or **Co-supervision** of post-docs: A. Courtoy (now faculty at CINVESTAV, Mexico), X. Xiong (now junior faculty at Central South University, Changsha, China), C. Pisano (now tenure-track at U. of Cagliari, Italy), P. Taelis (now post-doc at INFN Cagliari, Italy), M. G. Echevarria (now assistant professor at U. of Alcalá, Spain), G. Bozzi, V. Bertone, F. G. Celiberto, A. Signori, Y. Makris

Organization of International Meetings

- 2019 Chair of **Organizing Committee** of workshop on Transverse Polarization Phenomena in Hard Processes (Transversity 2020), Pavia, Italy
- 2019 Co-chair of **Organizing Committee** of Workshop "Resummation, Evolution, Factorization", Pavia, Italy
- 2019 Member of **International Advisory Committee** of International Workshop on Nucleon Structure at Large Bjorken x , Kolympari, Greece
- 2019 Member of **International Advisory Committee** of International Workshop on Hadron Structure and Spectroscopy, Aveiro, Portugal
- 2019 **Convener** of Future of DIS Working Group, 27th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2019), Torino, Italy
- 2018 **Convener** at Program INT-18-3 "Probing Nucleons and Nuclei in High Energy Collisions," INT, Seattle, USA
- 2018 **Convener** of parallel session at SPIN 2018 Symposium, Ferrara, Italy
- 2018 **Organizer** of workshop "Fragmentation Functions 2018," Stresa, Italy
- 2016 Member of **International Advisory Committee** of Workshop 3D Parton Distributions: path to the LHC, INFN-Laboratori di Frascati, Italy
- 2016 Member of **Organizing Committee** of workshop on Precision Radiative Corrections for Next Generation Experiments, Jefferson Lab, USA
- 2016 **Organizer** of Workshop on Parton TMDs at large x , ECT*, Trento (Italy)
- 2015 Member of **International Advisory Committee** of European Nuclear Physics Conference (EuNPC) 2015, Groningen (Nederland)

- 2015-2017 **Convener** of Italian Workshop on Hadron Physics and Non-Perturbative QCD (2015, Cortona, Italy and 2017, Pollenzo, Italy)
- 2014-2017 Member of **Local Organizing Committee**, or workshop series Transverse Polarization Phenomena in Hard Processes (Transversity 2014, Chia, Cagliari, Italy and Transversity 2017, INFN-Laboratori di Frascati, Italy)
- 2013 **Convener** of Spin Working Group, 21th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2013), Marseille (France)
- 2012-2016 Member of **International Program Committee** of workshop series on the QCD Structure of the Nucleon (QCD-N'16, Getxo, Spain, QCD-N'12, Bilbao, Spain)
- 2011 **Organizer** of Workshop on Dihadron Fragmentation Functions, Pavia (Italy)
- 2010-2013 Member of **International Advisory Committee** of Workshop on Probing Strangeness in Hard Processes, Laboratori Nazionali di Frascati (Italy)
- 2010 **Organizer** of Workshop on Transverse Momentum Distributions, ECT*, Trento (Italy)
- 2009 **Convener** of Workshop on Partonic Transverse Momentum Distributions, Mylos (Greece)
- 2008 Member of **Local Organizing Committee**, SPIN 2008 Symposium, Charlottesville (VA, USA)

Institutional responsibilities and commissions of trust

- 2019-now **Deputy Director**, Department of Physics, U. of Pavia (Italy)
- 2017-now Member of **Program Advisory Committee** of Jefferson National Laboratory (USA)
- 2017-now Member of **Scientific Board** of Horizon 2020 Committee, U. of Pavia (Italy)
- 2015-now Member of **Teaching Board** of PhD School in Physics, U. of Pavia (Italy)
- 2015-now Member of **Scientific Advisory Committee** of Centro Linguistico di Ateneo, U. of Pavia (Italy)
- 2013-now Member of **Scientific Advisory Committee** of Library of Science, U. of Pavia (Italy)
- 2013-2015 Member-elect of the **Board of Direction**, Department of Physics, U. of Pavia (Italy)
- 2011-now **Reviewer** for: Italian Ministry of Research and Education; Belgian Research Fund - Flanders (FWO); Belgian Fonds de la Recherche Scientifique (FNRS); Croatian Ministry of Science, Education and Sport; National Science Center Poland; French National Research Agency.
- 2003-now **Referee** for: Physical Review Letters, Physical Review D, Physical Letters B, Progress Particle Nuclear Physics, European Physical Journal A
- 2007-2016 Member of **PhD Committees** of: A. Signori, Vrije Universiteit Amsterdam (Nederland), M.G.A. Buffing, Vrije Universiteit Amsterdam (Nederland), F. F. Van der Veken, University of Antwerp (Belgium), M. G. Echevarria, Universidad Complutense de Madrid (Spain), P. B. van der Nat, Vrije Universiteit of Amsterdam (Nederland)
- 2010, 2013 Member of **Selection Committee** for the admission to the PhD in Physics "XXVI ciclo" and "XXIX ciclo", U. of Pavia (Italy)
- 2009 Member of **Selection Committee** for the admission to Collegio S. Caterina, Pavia (Italy)
- 2009, 2011, 2013, 2014 Member of **Selection Committee** for the admission to Almo Collegio Borromeo, Pavia (Italy)

Outreach

- 2014-now **Public seminars:** for high-school students (Sondrio and Voghera, Italy), for university students (Collegio Borromeo, Pavia, Italy), for general public (Grignasco, Italy)
- 2016-2017 **Laboratory for elementary school students**, “Bambinfestival,” Pavia (Italy)
- 2012-2016 **Participation in “European Researcher’s Night”** with various initiatives sponsored by INFN and University of Pavia: seminars (2012-2015), laboratory for primary school students (2013-2014-2015), laboratory on the science of cooking (2016), Pavia (Italy)
- 2014 **Lectures for high-school teachers** on Quantum Mechanics, Liceo Scientifico “G. Ferrari,” Borgosesia (Italy)
- 2010-2018 **Lectures for high-school students**, Summer Stage, Department of Physics, University of Pavia (Italy)

Other

- 2018-now **Secretary and Treasurer**, Alumni Association of Almo Collegio Borromeo, Pavia (Italy)
- 2019-now, 2013-2015 Member-elect of **School Board of Direction**, Istituto Comprensivo IC Cavour, Pavia (Italy)

Languages

Italian	Mother tongue	French	Fair
English	Fluent	Dutch	Basic
German	Fair		