

# ALESSANDRO BACCHETTA

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**PROFILE** Researcher in the field of theoretical hadronic physics and Quantum Chromodynamics, addressing fundamental questions such as: How are protons and neutrons made out of quarks and gluons? How do their properties emerge from the underlying structure? Worldwide expert on the multidimensional structure of the nucleon and its polarization dependence. Diverse experience in theoretical computations, model building, data analysis. Collaborator of large international experimental groups in Europe and USA.

**EXPERIENCE** **FACULTY RESEARCHER**  
*University of Pavia, Italy* 2009-present  
Tenured position focused on research, with limited teaching duties. Research partner of Italian National Institute of Nuclear Physics (INFN).

**NATHAN ISGUR DISTINGUISHED FELLOW**  
*Jefferson National Laboratory, Newport News, VA, USA* 2008-2009

**POST-DOC RESEARCHER**  
*DESY, Hamburg, Germany* 2005-2008

**ALEXANDER VON HUMBOLDT FELLOW**  
*University of Regensburg, Germany* 2004-2005

**POST-DOC RESEARCHER**  
*University of Regensburg, Germany* 2002-2003

**PUBLICATIONS** 43 ARTICLES in refereed international journals  
22 other publications  
7 experimental proposals  
Hirsch scientific output index  $h=26$  (SPIRES database)

**TEACHING** Master Physics COURSE: "Quantum ElectroDynamics"  
*University of Pavia, Italy* 2012-present

Graduate LECTURE SERIES: "Soft skills for graduate students"  
*University of Pavia and INFN, Pavia, Italy* 2010-present

Advanced LECTURE SERIES on theoretical hadronic physics topics  
*Varenna International School "E. Fermi," Jefferson Lab, University of Ferrara, University of Trieste, ECT\* Trento* 2006-2011

TEACHING ASSISTANT for Quantum Mechanics, Quantum Field Theory,  
Electrodynamics, Introduction to Elementary Particle Physics  
*University of Regensburg, Vrije Universiteit Amsterdam* 1999-2005

**FURTHER ACTIVITIES** Member of six INTERNATIONAL ORGANIZING COMMITTEES  
and one INTERNATIONAL ADVISORY COMMITTEE

REFEREE for the following international journals: Phys. Rev. Lett., Phys. Rev. D, Phys. Lett. B, Prog. Part. Nucl. Phys., Eur. Phys. J. A

Author of more than 50 SEMINARS (including two plenary talks) at conferences, workshops and seminar series at universities and research institutions worldwide

EDUCATION	PH.D. (DOCTORAAT) <i>Vrije Universiteit Amsterdam, Nederland</i> Supervisor: prof. P. J. Mulders. PhD thesis: "Probing the transverse spin of quarks in deep inelastic scattering" <i>Oct 2002</i>
	DEGREE IN PHYSICS (LAUREA IN FISICA) <i>Università degli Studi di Pavia, Italy</i> Supervisor: prof. S. Boffi. Final grade: 110/110 cum laude. Grade average: 29.7/30 <i>Jul 1998</i>
	HIGH SCHOOL DIPLOMA (DIPLOMA DI MATURITÀ) <i>Liceo Scientifico "G. Ferrari," Borgosesia, Italy</i> <i>Jul 1993</i>
	HIGH SCHOOL DIPLOMA <i>East High School, Denver, CO, USA</i> <i>May 1992</i>
HONORS AND AWARDS	NATHAN ISGUR DISTINGUISHED FELLOWSHIP <i>Jefferson Science Associates, Newport News, VA, USA</i> <i>2008-2009</i>
	ALEXANDER VON HUMBOLDT FELLOWSHIP <i>Alexander von Humboldt Foundation, Bonn, Germany</i> <i>2004-2005</i>
FURTHER EXPERIENCES	University of Pavia REPRESENTATIVE of Rete29Aprile <i>Network of Italian University Researchers</i> <i>2010-present</i>
	COORDINATOR of the ADI-postoc Working Group <i>Italian Ph.D. Association</i> <i>2003-2008</i>
	SCOUT EDUCATOR <i>Italian Catholic Scout Association</i> <i>1995-1998</i>
	HEAD STUDENT REPRESENTATIVE <i>Liceo Scientifico "G. Ferrari," Borgosesia, Italy</i> <i>1992-1993</i>
LANGUAGES	ITALIAN: mother tongue ENGLISH: fluent GERMAN: fair FRENCH: fair DUTCH: basic