

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name **GILBERTO ARTIOLI**  
Home Address **VIA LUIGI PELLIZZO 39, I-35128 PADOVA, ITALY**  
Work Address **DIPARTIMENTO DI GEOSCIENZE, UNIVERSITÀ DI PADOVA**  
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Nationality Italy  
Date of birth 03-february-1957

**CAREER**

2006 – to date FULL PROFESSOR. UNIVERSITÀ DEGLI STUDI DI PADOVA, DIPARTIMENTO DI GEOSCIENZE  
1999 - 2006 FULL PROFESSOR. UNIVERSITÀ DEGLI STUDI DI MILANO, DIPARTIMENTO DI SCIENZE DELLA TERRA  
1992 - 1999 ASSOCIATE PROFESSOR. UNIVERSITÀ DEGLI STUDI DI MILANO, DIPARTIMENTO DI SCIENZE DELLA TERRA  
1983 - 1992 RESEARCH ASSISTANT. UNIVERSITÀ DEGLI STUDI DI MODENA, ISTITUTO DI MINERALOGIA E PETROLOGIA  
1994 - 1995 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY AND HIGH FLUX BEAM REACTOR  
  
1988 - 1989 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY  
1983 - 1985 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY AND NATIONAL SYNCHROTRON LIGHT SOURCE  
  
1981 - 1985 RESEARCH ASSISTANT. THE UNIVERSITY OF CHICAGO, DEPARTMENT OF THE GEOPHYSICAL SCIENCES

**HIGHER EDUCATION**

- December 1985 "Doctor of Philosophy", The University of Chicago
- December 1980 "Laurea in Scienze Geologiche, cum laude", Università degli Studi di Modena

**HONORS**

- March 2021 Waltrude and Friedrich Liebau Prize for the Promotion of Interdisciplinarity in Crystallography, German Society for Crystallography (DGK)
- September 2018 Giacomo Levi Gold medal of the Italian Chemical Society-Division of Industrial Chemistry
- April 2015 Socio Nazionale. Accademia Nazionale delle Scienze detta dei XL
- April 2015 Socio Corrispondente. Accademia Galileiana di Scienze, Lettere ed Arti in Padova
- June 2014 International Prize Luigi Tartufari. Accademia Nazionale dei Lincei
- October 2013 Member. Accademia Europaea
- March-August 2007 Conservation Guest Scholar, The Getty Conservation Institute, Los Angeles
- April 2005-June 2006 Visiting Scientist. CeSMEC Center for the Study of Matter at Extreme Conditions, FIU, Miami
- June 1998 Fellow. The Mineralogical Society of America
- June-December 1988 Grant for research abroad, Consiglio Nazionale delle Ricerche
- September 1986 Premio Ugo Panichi. Società Italiana di Mineralogia e Petrologia
- April 1984 Travel grant. Special Cultural Enrichment Fund, Institute for International Education
- October 1981-October 1982 Salisbury Fellowship. The University of Chicago, Division of the Physical Sciences

• September 1981

Fulbright Travel grant. Istituto per gli scambi culturali Italia-Stati Uniti

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE  
OTHER LANGUAGES

ITALIAN  
English, French

## SCIENTIFIC AND ACADEMIC ACTIVITY

### ACADEMIC TEACHING

#### UNIVERSITÀ DI PADOVA

2022-TO DATE

COURSE OF **AUTHENTICATION: CONCEPTS AND METHODS**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2022-TO DATE

COURSE OF **MANAGEMENT AND VALORIZATION OF CULTURAL HERITAGE SITES**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2022-TO DATE

COURSE OF **MATERIALS PROPERTIES, USE AND CONSERVATION: METALS AND METALLURGICAL PROCESSES**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **INTEGRATED ANALYSIS OF CULTURAL HERITAGE MATERIALS**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **DATING LABORATORY**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **FIELD/LABORATORY WORK**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2016-2022

COURSE OF **CRYSTAL CHEMISTRY AND PROPERTIES OF INDUSTRIAL MATERIALS**, CORSO DI LAUREA IN SCIENZA DEI MATERIALI

2006-2022

COURSE OF **CRYSTALLOGRAPHY - STRUCTURE OF SOLIDS**, CORSO DI LAUREA IN SCIENZA DEI MATERIALI

2006-2022

COURSE OF **ENVIRONMENTAL MINERALOGY**, CORSO DI LAUREA IN SCIENZE E TECNOLOGIE PER L'AMBIENTE ED IL TERRITORIO

#### UNIVERSITÀ DI MILANO

2002-2007

COURSE OF **ANALYTICAL TECHNIQUES FOR CULTURAL HERITAGE**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1998-2003

COURSE OF **APPLIED MINERALOGY**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1996-2007

COURSE OF **CRYSTALLOGRAPHY**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1992-1998

COURSE OF **MINERALOGY**, CORSO DI LAUREA IN CHIMICA E CHIMICA INDUSTRIALE

#### UNIVERSITÀ DI MODENA

1986-1992

TEACHING ASSISTANT, COURSE OF MINERALOGY, CORSI DI LAUREA IN SCIENZE GEOLOGICHE, CHIMICA E SCIENZE NATURALI

1984-1986

TEACHING ASSISTANT, COURSE OF PETROGRAPHY, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

#### THE UNIVERSITY OF CHICAGO

• January - March 1983

TEACHING ASSISTANT, COURSE OF INTRODUCTION TO GEOLOGICAL SCIENCES

• October - December 1982

TEACHING ASSISTANT, COURSE OF PETROLOGY

### TUTORING

1988-2022

TUTOR OF **>70** UNDEGRUATE AND MASTER DISSERTATIONS

1994-2022

TUTOR OF **>25** PHD DISSERTATIONS

## SCIENTIFIC PRESENTATIONS

INVITED LECTURES

**>150 Invited lectures and seminars** at Academic Institutions, Public Schools, and Cultural Institutes (List in **Annex 1**)

PRESENTATIONS AT SCIENTIFIC  
CONFERENCES AND SCHOOLS

**>500 Presentations and contributions** to Scientific Conferences, Meetings, Workshops, and Schools (list in **Annex 2**)

## SCIENTIFIC PUBLICATIONS

PUBLICATIONS IN PRINT

**>500 publications and books** (List in **Annex 3**)

H-INDEX 46 (ISI Web of Science)(Researcher ID F-2149-2015)  
H-INDEX 48 (Scopus Author ID 56582666300)  
H-INDEX 57 (Google Scholar)  
ORCID <https://orcid.org/0000-0002-8693-7392>

## MANAGING, SERVICES

OCTOBER 2021-TO DATE	Proponent and coordinator of the International Master course on “Applied sciences to cultural heritage materials and sites” (ASCH), Università di Padova-Université Bordeaux Montaigne-University of Haifa
FEBRUARY 2021-PRESENT 2017-TO DATE	Vice-President of the AIC, Associazione Italiana di Cristallografia Member of the panels for the evaluation of experiment proposals (Panel ISP-7) at ISIS, Rutherford Appleton Laboratory, Didcot, UK
JANUARY 2015 AND SEPTEMBER 2018	Scientific responsible of the OpenLab Turkey initiative organized by UNESCO-IUCr-PANalytical-University of Bilkent, Ankara
2014-TO DATE	Chairman of the Commission on Crystallography in Art and Cultural Heritage (CrysAC) of the International Union of Crystallography (IUCr). <a href="http://www.iucr.org/iucr/commissions/ccach">http://www.iucr.org/iucr/commissions/ccach</a>
JUNE 2014	Scientific responsible of the OpenLab Ghana initiative organized by UNESCO-IUCr-PANalytical-University of Ghana, Accra
OCTOBER 2013-MARCH 2014	Organizer of the CRISTALLI! Exhibition held on the occasion of the International Year of Crystallography 2014 promoted by UNESCO and IUCr
2011-2014	Consultant of the Commission on Crystallography in Art and Cultural Heritage (CrysAC) of the International Union of Crystallography (IUCr)
2010-TO DATE	Director of the Centro Interdipartimentale di Ricerca per lo “Studio dei materiali cementizi e dei leganti idraulici” (CIRCe) of the Università degli Studi di Padova
2010-TO DATE 2010	Scientific responsible of the Museum of Mineralogy, Università di Padova Member of the Max Perutz ECA Prize Committee
2008-TO DATE 2006-2009	Member of the CNR committee for the IUCr activities Director of the Doctorate School on Earth Sciences, Dipartimento di Geoscienze, Università degli Studi di Padova
2001-2002	Member of the Science Advisory Committee, ESRF, Grenoble
2000-2006	Director of the Doctorate School on Earth Sciences, Dipartimento di Scienze della Terra, Università degli Studi di Milano
1999-2002	Member of the Crystallography panel for the evaluation of experiment proposals (Panel ISP-1) at ISIS, Rutherford Appleton Laboratory, Didcot, UK
1998-2004	Member and Vice-chairman of the European Powder Diffraction Conferences (EPDIC) Committee
1998-2004	Member of the Structure Commission of the International Zeolite Association (IZA)
1998-2003	Member of the Chemistry panel for the evaluation of experiment proposals at ESRF, Grenoble
1997-2000	Invited member of the International Centre for Diffraction Data (ICDD)
1995-1999	Member of the CNR <i>Commissione di studio per il coordinamento delle attività di radiazione di sincrotrone</i>
1995-1998	Member of the evaluation committee of experiment proposals at the GILDA beamline, ESRF, Grenoble
1995-1996	Member of the working group for the scientific case of the European Science Foundation concerning the European Spallation Source (ESS)
1993-1996	Member of the <i>International Committee on New Minerals and New Mineral Names: Subcommittee on Natural Zeolites, Chairman D.S. Coombs</i>
1992	Founding member of the Società Italiana di Luce di Sincrotrone (SILS)

## MAJOR GRANTS

2019-2022	<b>National coordinator of the project COFIN2017</b> “Mineral reactivity, a key to understand large-scale processes: from rock forming environments to solid waste recovering/lithification”
2018-2021	Scientific responsible of the research agreement between <b>Università di Padova e MAPEI S.p.a.</b> on cement materials. 4 years project funded by MAPEI
2013-2015	<b>National coordinator of the project COFIN2010-2011</b> “Mineral-biosphere interaction: consequences for the environment and human health”
2007-2017	Scientific responsible of the research agreement between <b>Università di Padova e MAPEI S.p.a.</b> on cement materials. 10 years project funded by MAPEI

2006-2009	Scientific coordinator of the project "Prehistoric pyrotechnology: insights on hominid behaviour from high resolution study of combustion features". <b>Funded by EU (FP6-2005-Mobility-6) as Marie Curie International Outgoing Fellowship (OIF)</b> in collaboration with Paul Goldberg (University of Boston)
2006	Scientific coordinator of the project "L'inizio della metallurgia nell'area alpina: studio analitico delle evidenze archeologiche dell'Italia del Nord". <b>Progetto Galileo 2006/2007</b> , funded by the Università Italo-Francese in collaboration with David Bourgarit (C2RMF, Louvre, Paris)
2004-2006	<b>National coordinator of the project COFIN2004</b> "Microstructure, morphology, and reactivity: modeling and measurement of crystallization and dissolution processes in minerals"
2002-2004	<b>National coordinator of the project COFIN2002</b> "Mechanisms of surface reactions in minerals: kinetics of dissolution and growth, and their modeling"
2000-2002	<b>National coordinator of the project COFIN2000</b> "Surface chemical reactions in minerals: intercalation and adsorption processes"
<b>ORGANIZATION OF MEETINGS, WORKSHOPS, SCHOOLS</b>	<i>(scientific organizer and chair of &gt;60 sessions and symposia at national and international meetings in the period 1991-2018)</i>
AUGUST 2022	6 <sup>th</sup> CrysAC Workshop "Nano- and micro-diffraction for cultural heritage", C2RMF-Louvre, Paris, France, 22 August 2022
AUGUST 2019	5 <sup>th</sup> CrysAC Workshop "Crystallography of metals and metal corrosion", Vienna, Austria, 17 August 2019
JANUARY-FEBRUARY 2019	Chair of the Scientific Committee of the 2 <sup>nd</sup> Pan African Conference on Crystallography PCCr2, Accra, Ghana, 28 January-2 February 2019
MAY 2018	3 <sup>rd</sup> CrysAC Workshop "Recent advances in the investigation of ancient mortars and binders", Merida, Mexico, 20 May 2018
MAY 2017	2 <sup>nd</sup> CrysAC Workshop "Applied crystallography in the study of pigment degradation", Brno, Czech Republic, 31 May 2017
MAY 2016	1 <sup>st</sup> CrysAC Workshop "Cultural heritage authentication and forensic science", Krakow, Poland, 18 May 2016
APRIL 2014	Main organizer of the 3 <sup>rd</sup> International Mortar Dating Workshop. Padova, 14-16 April 2014
NOVEMBER 2012	Organizer and chair of the Workshop on "Geopolymers: present and future", Mapei Auditorium, Milano, 16 november 2012
FEBRUARY 2012	Organizer and Chairman of the PANalytical Workshop on "Advanced XRD applications", Bologna, 14 february 2012
MARCH 2005	Organizer of the International PANalytical Workshop on "Non ambient diffraction", Tirrenia
JUNE 2004	Co-organizer of the National GNM School on "Proprietà ed applicazioni dei minerali alla nanoscala"
APRIL 2003	Co-organizer of the National AIC School on "Meccanismi della crescita cristallina: fondamenti e applicazioni"
JUNE 1996	Chairman and main organizer of the 5 <sup>a</sup> European Powder Diffraction Conference, Parma, Italy
MARCH 1995	Co-organizer of the 4 <sup>th</sup> National School on "Diffrazione a raggi X su materiali policristallini", Gargnano, BS
SEPTEMBER 1991	Organizer of the 1 <sup>st</sup> National school on "Metodi avanzati di analisi diffrattometrica di campioni policristallini", Modena
<b>EDITORIAL ACTIVITY</b>	
EDITOR	2020-to date: <b>Member of the Editorial Board of <i>Authenticity Studies, International Journal of Archaeology and Art</i>, published by Padova University Press</b>
	2017-2018 <b>Editor of the <i>Encyclopedia of Archaeological Sciences</i>, Wiley-Blackwell</b>
	2016 <b>Editor of <i>Elements</i>, special issue on <i>Earth Sciences for the Cultural Heritage</i>, February 2016</b>
	2013-to date. <b>Member of the Editorial Board of <i>PCA European Journal of Post-Classical Archaeologies</i></b>
	2009-to date. <b>Managing Editor of <i>Archaeometry</i></b>
	2008-to date. <b>Associate Editor of the Journal <i>Archaeological and Anthropological Sciences</i></b>
	2003-2009. <b>Member of the Advisory Board of <i>Archaeometry</i></b>
	2002-to date. <b>Member of the Scientific Committee of the <i>Rivista Mineralogica Italiana</i></b>
	1996-2010. <b>Member of the International Advisory Board of <i>Materials Science Forum</i></b>
	1995-1999. <b>Associate Editor of the <i>American Mineralogist</i></b>

- REFEREE
- *Acta Crystallographica B*
  - *American Mineralogist*
  - *Applied Physics A*
  - *Archaeometry*
  - *Associazione Italiana Archeometria*
  - *Associazione Italiana Zeoliti*
  - *Bulletin de Mineralogie*
  - *Canadian Mineralogist*
  - *Clays and Clay Minerals*
  - *Construction and Building Materials*
  - *Cristallography Reviews*
  - *European Journal of Inorganic Chemistry*
  - *European Journal of Mineralogy*
  - *European Physical Journal Plus*
  - *Geochimica and Cosmochimica Acta*
  - *Journal of Applied Crystallography*
  - *Journal of Archaeological Sciences*
  - *Journal of Archaeological and Anthropological Sciences*
  - *Journal of Cultural Heritage*
  - *Journal of Inclusion Phenomena*
  - *Journal of Physics and Chemistry of Solids*
  - *Journal of Synchrotron Radiation*
  - *The Journal of Physical Chemistry*
  - *Intern. Committee on Natural Zeolites*
  - *Microporous and Mesoporous Materials*
  - *Mineralogical Magazine*
  - *Mineralogy and Petrology*
  - *Nuovo Cimento*
  - *Periodico di Mineralogia*
  - *PlosOne*
  - *Physics and Chemistry of Minerals*
  - *Physics Review Letters*
  - *Science Advances*
  - *Zeitschrift für Kristallographie*

## PROJECT REVIEWER

European Research Council (ERC) – European Science Foundation (ESF)  
 Progetti di Ricerca di Interesse Nazionale (PRIN) – Min. Istruzione, Università e Ricerca (MIUR)  
 Valutazione dei prodotti e della qualità della ricerca (VQR)  
 Swiss National Science Foundation (SNSF)  
 Austrian Science Fund (FWF)  
 ETH Zurich Research Commission  
 FWO Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen)  
 Leibniz Research and Cooperation Projects – The Leibniz Association, Bonn  
 The British Academy (BA) – Leverhulme Grants  
 Georgia National Science Foundation (GNSF) – Shota Rustaveli Foundation  
 NSC National Science Centre, Poland  
 Russian Science Foundation (RSF) – Russian International Affairs Council (RIAC)  
 The Rutherford Appleton Laboratory (RAL) International Fellowship Programme  
 Università di Torino (UNITO) – Compagnia di San Paolo  
 Università Italo-Francese (UIF) – Progetti Vinci  
 Weizmann Institute – Rehovot, Israel