

## CURRICULUM VITAE

### Dr. Damiano Pesaresi

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Born in La Spezia (Italy) on 3 November 1966.

### Languages:

Very good level of spoken and written English.

Good level of spoken French [one year of residence in Geneva (Switzerland)].

Fair level of spoken German [certified Common European Framework of Reference for Languages (CEFR) A1 (Breakthrough), one year of residence in Vienna (Austria)].

### Education:

High School diploma (Scientific Liceum) obtained in 1985 with 56/60 marks.

Degree in Physics obtained on 18 December 1992 at [Padova University](#) (Italy) with 105/110 marks; program of studies in Electronics (digital Electronics and Informatics); title of thesis: "SHIP - a 800 Mbit/sec digital channel of communication".

### Informatics Skills:

Programming in C, C++, Pascal, VisualBasic; very good knowledge of Unix, Linux and Windows operating systems.

### Specialization Courses:

"UNIX", internal course at the University of Padova organized by Ellis S.r.l. (Padova, Italy), 1991.

3-weeks training-on-the-job at Albuquerque Seismological Laboratory ([ASL](#)), New Mexico (USA), on seismic data collection with UNIX, 1994.

"CERN School of Computing", European Organization for Nuclear Research ([CERN](#)), 1994.

"Programming in C", organized by IBM Italy, 1995.

"Internet", organized by IBM Italy, 1995.

"Internet Advisor", organized by HP Italy, 1997.

"VEE", organized by HP Italy, 1998.

"Spectrum Analyzers", organized by HP Italy, 1998.

"UNIX", organized by Learning Tree International (<http://www.learningtree.com/>), 1999.

"International Monitoring System (IMS) Seismic Technical Training Program", Comprehensive Nuclear Test-Ban-Treaty Organization (CTBTO), Vienna, 2000.

"National Data Center Training Course for Technical Staff", Comprehensive Nuclear Test-Ban-Treaty Organization (CTBTO), Vienna, 2000.

"C language", organized by SysMan (<http://www.sysman.it/>), Italy, 2000.

"LINUX System Administrator", organized by MFH (<http://www.mfh.it/>), Italy, 2002.

"PADI Advanced Open Water Diver", Professional Association of Diving Instructors, Italy, 2002.

"MPI Parallel Programming", organized by MFH (<http://www.mfh.it/>), Italy, 2003.

"International Data Center Training Course for NDC Managers", Comprehensive Nuclear Test-Ban-Treaty Organization (CTBTO), Vienna, 2003.

## **Employment:**

### 2005 to present

Technical responsible of the "Antelope" seismic data acquisition system of the Northeastern Italian Seismic Network at the Seismological Research Center (Centro di Ricerche Sismologiche, [CRS](#)) of the Italian National Institute for Oceanography and Experimental Geophysics (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, [OGS](#)), Udine (Italy).

### 2000 to 2004

Technical manager of the Italian National Data Center for the Comprehensive Nuclear Test-Ban-Treaty Organization ([CTBTO](#)): ordering, testing, installation and maintenance of hardware, dedicated software and networking equipment. Italian expert at the CTBTO Working Group B for Communication and International Monitoring System (IMS) issues. Technical manager of the Nepal Project for the installation of the EVN seismic station on Mount Everest.

### 1999

Seismic officer (P3) at [CTBTO](#) - IMS division - seismic monitoring section. Manager of the [IRIS](#) project for connecting 49 IMS stations to the Global Communication Infrastructure (GCI): interface development, including terms of reference for the contract. Point of contact between IMS division and GCI section of the International Data Center (IDC) division. IMS expert for satellite connections, coordinator of the connection of IMS stations to the GCI VSAT satellite system. Responsible for the development of the IMS authentication of data and commands system and of the CD-x language for sending authenticated data and commands between IMS stations and IDC. Procurement of telecommunication and seismic equipment.

### 1994 to 1998

Technical responsible of the Mediterranean very broadband digital seismic network named "[MedNet](#)" run by Istituto Nazionale di Geofisica e Vulcanologia ([INGV](#)) in Rome (Italy). Ordering, installing and repairing seismic stations and spare parts, software (data collection and analysis) and hardware (calibration) development, testing and implementing of dial-up and real-time data links, site survey and preparation, evaluation of performances of seismic stations. Coordinator of 3 technicians. Italian expert at CTBTO Working Group B for IMS and Communication.

### 1992 to 1993

Projecting, developing and testing of electronic boards to serialize the parallel data transmission protocol HIPPI at 800 Mbit/sec on optic fiber at [CERN](#) laboratories in Geneva.

### 1989 to 1992

Developing of an automatic return of statistic maps from ISTAT data on AutoCAD medium on PC platform, in collaboration with [IRES Veneto](#).

Developing of an automatic database system on PC platform for a census of the buildings of the commune of San Donato Milanese, in collaboration with Cooperativa Spazio Analogo society of Venice.

- Member of Observatories and Research Facilities for European Seismology ([ORFEUS](#)) Working Group 2, "Technical support" (<http://www.orfeus-eu.org/WorkingGroups/wg2.html>)
- Member of Federation of Digital Broad-Band Seismograph Networks ([FDSN](#)) Working Group IV on CTBT issues (<http://www.fdsn.org/wgIV/>)

## Abstracts, posters, publications and presentations:

1. Pesaresi D., "SHIP – Serial Hippi Project: un Canale di Comunicazione Digitale a 800 Mbit/sec", Tesi di Laurea, Facoltà di Fisica, Università degli Studi di Padova, 1992.
2. Pesaresi D., "SHIP - Serial HIppi Project: an 800 Mbit/sec digital channel", INFN DFPD 93/EI/61, 1993.
3. Morelli A. et alii, "MedNet : Stato di Avanzamento", XIII Convegno Nazionale del G.N.G.T.S., 1994.
4. Pesaresi D. and Morelli A., "La Calibrazione dei Sensori a Larga Banda STS-1", XIII Convegno Nazionale del G.N.G.T.S., 1994.
5. Christoskov L., Morelli A., Pesaresi D., Petrov L., Solakov D. and Tozzi M., "Observatory Vitosha as a MedNet Seismic Station of VBB Type", Bulgarian Geophysical Journal, Volume XXII, No.4, 1996.
6. Pesaresi D., "Misure di Riferimento dall'Antartide per la Geodesia e Geofisica della Terra Solida: l'Osservatorio Sismologico", Rapporto sulla Campagna Antartica Estate Australe 1996-97, 1997.
7. Pesaresi D., "Seismic Observatory in Terra Nova: the 1996-97 Field Report, Terra Antarctica Reports, Vol.No. 2, Earth Sciences, Carlo Alberto Ricci (ed.), ISBN 88-900221-2-4, 1997.
8. Hanka W., Pesaresi D. and Turkelli N., "Geofon and MedNet Broad-Band Station Installation in Isparta, Turkey", Bull. Of EAEE, Vol. 16, No.1, 1997.
9. Pesaresi D., "Installation and Maintenance of Very-Broad-Band Stations", ORFEUS workshop "Installation and operation of broad-band seismograph stations", Prague, 1998.
10. Pesaresi D., "Quanterra Users Group (QUG) meeting", Orfeus Newsletter Volume 1, no 1, January 1999.
11. Hutt C. R., Pesaresi D. and Van Eck T., "Instrumentation: FDSN working group? Workshop at IUGG99?", Orfeus Newsletter Volume 1, no 1, January 1999.
12. Pesaresi D., "Parent Network Institutions and stations located in Host Countries: control, access and operation", CTBT/WGB-8/IT/1, February 1999.
13. Pesaresi D., "IMS Interface to the GCI", GCI Workshop, Vienna, September 1999.
14. Pesaresi D., "IMS Data Formats and Volumes", GCI Workshop, Vienna, September 1999.
15. Console R. and Pesaresi D., "The Highest Seismological Station in the World", EOS, Transactions, AGU Volume 80, No. 46, 16 November 1999.
16. Console R., Pandey M. R., Mele G. and Pesaresi D., "A Broad-Band Seismic Station on Mount Everest", poster presented at AGU Fall Meeting, December 1999.
17. Pesaresi D., "ORFEUS Working Group 2: Technical Support Group for Broad-Band Seismometer Users", Orfeus Newsletter Volume 2, no 1, March 2000.
18. Console R., Pandey M. R., Pesaresi D. and Mele G., "A broad-band seismic station on Mount Everest", poster presented at 31<sup>st</sup> International Geological Congress, Rio de Janeiro, August 2000.
19. Pesaresi D., "Optimizing GCI Links in Italy: GCI Sharing?", GCI Workshop, Vienna, October 2000.
20. Pesaresi D., "Running a Seismic Network in Very Remote Areas: the Italian Experience", "Operation and Maintenance of International Monitoring System Stations" workshop, Vienna, October 2000.
21. Pesaresi D. and Console R., "The EVN Seismic Project in the framework of Ev-K<sup>2</sup>-CNR", "La Nuova Ricerca Scientifica: Piramide 2000-2002" workshop, Rome, December 2000.
22. Pesaresi D., Console R. and Mele G., "The EVN Seismic Project", poster presented at "La Nuova Ricerca Scientifica: Piramide 2000-2002" workshop, Rome, December 2000.
23. Pesaresi D., "ORFEUS Working Group 2: Instrumentation Workshop in Rome (Italy), November 2000", Orfeus Newsletter Volume 2, no 3, December 2000.
24. Pesaresi D., "Integrating Diverse Networks: the CTBTO Experience and Perspectives", workshop "Beyond Frontiers: Seismic Networks in the Southern

- Alps", Trieste, September 2001 and conference "Integrating the Seismic Monitoring in Central Europe", Udine, September 2001.
25. Pesaresi D., "GCI Sharing and Auxiliary Stations: the Italian Perspective", GCI Workshop, Vienna, October 2001.
  27. Pesaresi D. and Console R., "La Rete multidisciplinare della CTBTO: il coinvolgimento italiano", XX Convegno Nazionale del G.N.G.T.S., Rome, November 2001.
  28. Pesaresi D., "ORFEUS and MEREDIAN: Status and developments", Antelope Users Group meeting, Muscat (Oman), November 2001.
  30. Pesaresi D., "Italian CTBTO NDC Activities", Antelope Users Group meeting, Muscat (Oman), November 2001.
  32. Pesaresi D., Horn N., Svancara J. and Mocnik G., "Data Exchange at the Italian CTBTO NDC", poster presented at XIV IRIS Workshop, Waikoloa (USA), June 2002.
  33. Pesaresi D., "Provision of continuous data from auxiliary seismic stations to Hosting Countries", CTBT/WGB-19/IT/1, September 2002.
  34. Pesaresi D., Horn N., Svancara J. and Russi M., "Data Exchange at the Italian CTBTO NDC", poster presented at ORFEUS Workshop "Real Time Data Exchange within Europe", Barcelona (Spain), October 2002.
  35. Pesaresi D., Console D. and Di Giovambattista R., "Statistical comparison of the Italian NDC and CTBTO IDC seismic bulletins in the Mediterranean area", poster presented at EGS-AGU-EUG Joint Assembly, Nice (France), April 2003.
  36. Pesaresi D. and Horn N., "Data integration from the scientific community and CTBTO: the Italian NDC experience with Antelope", *Seismological Research Letters* N. 75, pp. 379-384, 2004.
  37. Pesaresi D., Bragato P.L., Di Bartolomeo P., Durì G., Govoni A., Ponton F., Zuliani D., "Data acquisition and earthquake alerting in North-eastern Italy: the OGS-CRS experience in using the Antelope software suite", Abstracts book of the First European Conference on Earthquake Engineering and Seismology (1st ECEES), ID 1738, pag. 340, Geneva (Switzerland), September 2006.
  38. Gentili S., Bragato P.L., Pesaresi D., Snidarcig A., "Performances of two automatic earthquake location systems in the North-eastern Italy", Abstracts book of the First European Conference on Earthquake Engineering and Seismology (1st ECEES), ID 1686, pag. 280, Geneva (Switzerland), September 2006.
  39. Gentili S., Bragato P.L., Pesaresi D., Snidarcig A., "FAAS and Antelope: two automatic earthquake location systems in the North-eastern Italy and surrounding areas", poster presented at GNGTS 2006 general assembly, Roma, 2006.
  40. Horn N., Pesaresi D., Costa D., Zivcic M., "Testing the Antelope software suite to realize a distributed seismic database among Austria, Northeastern Italy and Slovenia", *Geophysical Research Abstracts*, Vol. 9, 03498, 2007.
  41. Gentili S., Pesaresi D., Snidarcig A., "Tuning Antelope configuration for best earthquake location", poster presented at XXIV IUGG General Assembly, Perugia, 2007.
  42. Pesaresi D., Bragato P.L., Di Bartolomeo P., Saraò A., Bernardi P., Govoni A., "Data mining from Antelope at OGS-CRS (Udine, Italy)", poster presented at European Geosciences Union (EGU) General Assembly 2008, Vienna (Austria), 2008.
  43. Pesaresi D., Bragato P.L., Di Bartolomeo P., Saraò A., Bernardi P., "Monitoring in real time the North East Italy seismicity: the OGS-CRS experience with the Antelope software suite", poster presented at XXXI European Seismological Commission (ESC) General Assembly 2008, Crete (Greece), 2008.
  44. Pesaresi D., Bragato P.L., Saraò A., Michelini A., Priolo E., Comelli P., Di Bartolomeo P., Bernardi P., Costa G.; "Antelope @ OGS (Udine, Italy)", presented at QAUG 2009, Marrakech (Morocco), March 2009.
  45. Pesaresi D., Russi M., Plasencia M., Cravos C., "Testing the global capabilities of the Antelope software suite: fast location and Mb determination of teleseismic events using the ASAIN and GSN seismic networks", *Geophysical Research Abstracts*, Vol. 11, EGU2009-12663, 2009.

46. Pesaresi D. and the CRS seismic network Team (P.L. Bragato, P. Comelli, E. Del Negro, P. Di Bartolomeo, G. Durì, D. Pesaresi, F. Ponton, E. Priolo, M. Romanelli, A. Saraò, M. Sukan and D. Zuliani), "The North East Italy (NI) broadband seismic network run by OGS: experience in improving the long period performances", Geophysical Research Abstracts, Vol. 11, EGU2009-10763, 2009.
47. Valt M., Pesaresi D., Cagnati A., "Monitoring snow avalanches with seismic stations in north-eastern Italy: a test case". Geophysical Research Abstracts, Vol. 11, EGU2009-10993, 2009.
48. Russi M., Cravos C., Pesaresi D., Plasencia Linares M.P., "The Antarctic Seismographic Argentinean Italian Network - ASAIN Improving the instrumental coverage in Antarctica", poster presented at 31st Course of the International School of Geophysics International Workshop on Real Time Seismology: Rapid Characterization of the Earthquake Source and of its Effects. Erice (Italy), May 2 - 8, 2009.
49. Saraò A., Bragato P.L. and D. Pesaresi, "The OGS experience in rapid determination of source parameters and ShakeMaps for NE Italy", poster presented at 31st Course of the International School of Geophysics International Workshop on Real Time Seismology: Rapid Characterization of the Earthquake Source and of its Effects. Erice (Italy), May 2 - 8, 2009.
50. Pesaresi D., Bragato P.L., Di Bartolomeo P., Saraò A., Bernardi P., Govoni A., "Data mining from Antelope at OGS-CRS (Udine, Italy)", poster presented at ISS09 International Scientific Studies Conference, 10-12 June 2009, Vienna.
51. Pesaresi D., Russi M., Plasencia M., Cravos C., "Testing the global capabilities of the Antelope software suite: fast location and Mb determination of teleseismic events using the ASAIN and GSN seismic networks", poster presented at ISS09 International Scientific Studies Conference, 10-12 June 2009, Vienna.
52. Valt M., Pesaresi D.; "Stagione invernale 2008-2009: caratteristiche, valanghe e monitoraggio sismico". Neve e Valanghe, Vol. 67, 48-59, August 2009.
53. Valt M., Pesaresi D., "Detecting snow avalanches with seismic stations in North-east Italy: first results of dataset analysis", poster presented at ISSW09 Europe International Snow Science Workshop, September 27 - October 2 2009 Davos, Switzerland.
54. Pesaresi D.; "Antelope usage @ OGS", presented at QAUG 2010, Prague (Czech Republic), March 2010.
55. Pesaresi D., Sleeman R., "SM1.3 Seismic Centers Data Acquisition: an introduction to Antelope, EarthWorm, SeisComp and their usage around the world". Geophysical Research Abstracts Vol. 12, EGU2010-4965, EGU General Assembly 2010, Vienna (Austria) May 2-7 2010.
56. Pesaresi D., Ravanat X., Thibert E.; "Seismic signal of avalanches". Geophysical Research Abstracts Vol. 12, EGU2010-13941, EGU General Assembly 2010, Vienna (Austria), May 2-7 2010.
57. Plasencia Linares M.P., Russi M., Pesaresi D., Cravos C.; "Acquiring data in real time in Italy from the Antarctic Seismographic Argentinean Italian Network (ASAIN): testing the global capabilities of the EarthWorm and Antelope software suites". Geophysical Research Abstracts Vol. 12, EGU2010-6802-1, EGU General Assembly 2010, Vienna (Austria), May 2-7 2010.
58. Saraò A., Pesaresi D., Bragato P.L., Di Bartolomeo P., Plasencia Linares M.P.; "Acquiring, archiving, analyzing and exchanging seismic data in real time at the Seismological Research Center of the OGS in Italy". Geophysical Research Abstracts Vol. 12, EGU2010-0, EGU General Assembly 2010, Vienna (Austria), May 2-7 2010.
59. Bragato P.L., Costa G., Horn N., Pahor J., Pesaresi D., Lenhardt W., Zivcic M.; "The usage of Antelope for acquiring and exchanging data in South-Eastern Alps: present configuration and future perspectives". Poster presented at European Seismological Commission 32nd General Assembly, September 6-10 2010 Montpellier, France.
60. Saraò A., Pesaresi D., Bragato P.L., Di Bartolomeo P., Plasencia Linares M.P.; "Acquiring, archiving, analyzing and exchanging seismic data in real time at the Seismological Research Center of the OGS in Italy: an updated view". Poster

presented at European Seismological Commission 32nd General Assembly, September 6-10 2010 Montpellier, France.

61. Pesaresi D., Bragato P.L.; "Acquisizione dati al Centro di Ricerche Sismologiche dell'Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS", in Cattaneo M., Moretti M.; "Riassunti estesi del I° Workshop Tecnico Monitoraggio sismico del territorio nazionale: stato dell'arte e sviluppo delle reti di monitoraggio sismico Roma 20 | 21 dicembre 2010", Miscellanea INGV 2011 N. 10, ISSN 2039-6651, pp. 38-41.
62. Pesaresi D.; "The EGU2010 SM1.3 Seismic Centers Data Acquisition session: an introduction to Antelope, EarthWorm and SeisComp, and their use around the World". *Annals of Geophysics* Vol 54, No 1, 2011; doi: 10.4401/ag-4972, pp. 1-7.
63. Bragato P.L., Di Bartolomeo P., Pesaresi D., Plasencia Linares M.P., Saraò A.; "Acquiring, archiving, analyzing and exchanging seismic data in real time at the Seismological Research Center of the OGS in Italy". *Annals of Geophysics*, Vol 54, No 1, 2011; doi: 10.4401/ag-4958, pp. 67-75.
64. Pesaresi D.; "Antelope usage @ OGS", presented at QAUG 2011, Bucharest (Romania), March 2011.
65. Pesaresi D., Bragato P.L., Saraò A., Di Bartolomeo P., Plasencia Linares M.P., Durì G.; "Improving the seismic monitoring of North-eastern Italy: the state of the art of the North-eastern Italy (NI) Seismic Network run by OGS". *Geophysical Research Abstracts* Vol. 13, EGU2011-10145, EGU General Assembly 2011, Vienna (Austria), April 3-8 2011.
66. Pesaresi D., Bragato P.L., Durì G.; "Real time seismic monitoring in South-Central Europe: data sharing, cooperation and improvements of the OGS NI Seismic Network", poster presented at CTBTO Science & Technology conference 2011, Vienna (Austria), June 8-10 2011.
67. Helffrich G., Pesaresi D., Toneyawa T.; "The OGS local virtual seismic network in South-Central Europe as an array: exploiting depth phases to locate upper mantle discontinuities", poster presented at CTBTO Science & Technology conference 2011, Vienna (Austria), June 8-10 2011.
68. Bragato P.L., Pesaresi D., Saraò A., Di Bartolomeo P., Plasencia Linares M.P., Durì G.; "OGS improvements in the year 2011 in running the Northeastern Italy Seismic Network". *Geophysical Research Abstracts* Vol. 14, EGU2012-7310, EGU General Assembly 2012, Vienna (Austria), April 22-27 2012.
69. Pesaresi, D., Dall'Olio, L., Rovelli, A., Romanelli, M., Barnaba, C. & Abu Zeid N., 2012 "Installation of a very broad band borehole seismic station in Ferrara (Emilia)", *Atti del 31o Convegno Nazionale GNGTS*, Vol. 2, pp. 69-75, ISBN 978-88-902101-2-9.