

# CURRICULUM VITAE

ENRICO GUASTALDI

## Address

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NAME AND SURNAME	Enrico Guastaldi	
ADDRESS	Via Serraglio, 235 53048 - Sinalunga (SI) Italy	
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## Personal Details

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GENDER	Male
DATE OF BIRTH	15th of March, 1974
PLACE OF BIRTH	Sinalunga (SI), Italy
PRESENT CITIZENSHIP	Italian

## Education

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DATES	2005
TITLE OF QUALIFICATION AWARDED	PhD in Geological Sciences
PRINCIPAL SUBJECTS / OCCUPATIONAL SKILLS COVERED	Title of Thesis: " <i>Risk analysis for remediation project of contaminated sites: the geostatistical approach</i> "
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	Earth Sciences Department of University of Siena, Siena, Italy
DATES	2004
TITLE OF QUALIFICATION AWARDED	Master of Science in Mineral Resource and Environmental Geostatistics
PRINCIPAL SUBJECTS / OCCUPATIONAL SKILLS COVERED	Title of Thesis: " <i>Geostatistical modelling of uncertainty for the risk analysis of a contaminated site</i> "
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	School of Process, Environmental and Materials Engineering, Department of Mining Engineering, University of Leeds, Leeds, England, United Kingdom
DATES	1999
TITLE OF QUALIFICATION AWARDED	Master's Degree in Engineering Geology
PRINCIPAL SUBJECTS / OCCUPATIONAL SKILLS COVERED	Title of Thesis: " <i>Analisi della fratturazione dei marmi del Carrarese mediante metodi informatizzati di telerilevamento: la zona di Lorano e La Facciata</i> " ( <i>Analysis of joints systems in Carrara's marbles by means of remote sensing methods: "Lorano" and "La Facciata" quarries</i> ).
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	Earth Sciences Department of University of Siena

DATES	1993
TITLE OF QUALIFICATION AWARDED	Scientific Secondary School's Diploma
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	"Liceo Scientifico G. Galilei - Siena"

## Work Experience: Main Activities and Projects

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DATES	From April 2010 to Present
OCCUPATION OR POSITION HELD	External Consultant
MAIN ACTIVITIES AND RESPONSIBILITIES	Head of Applied and Environmental Laboratory
NAME AND ADDRESS OF EMPLOYER	CGT Centro di GeoTecnologie dell'Università degli Studi di Siena (Centre for GeoTechnologies of University of Siena) Via Vetri Vecchi, 34 - 52027 San Giovanni Valdarno, AR (Italy)
TYPE OF BUSINESS OR SECTOR	Research and Consulting

### LIST OF MAIN ACTIVITIES AND PROJECTS

Name and address of employer:

CGT Centro di GeoTecnologie dell'Università degli Studi di Siena (Centre for GeoTechnologies of University of Siena) Via Vetri Vecchi, 34 - 52027 San Giovanni Valdarno (Italy)

- 2012** - *Consultancy for University of Sassari*: Numerical modelling of groundwater flow of Sassari's dump (Sardinia, Italy).
- 2011** - *Consultancy for ASA Azienda Servizi Ambientali S.p.A. (Livorno, Italy)*: Hydrogeological study of Mola plain, Elba island (Italy).
- 2011** - *Consultancy for Chimet S.p.A. (Civitella Valdichiana, Arezzo, Italy)*: Hydrogeological study of Chimet SpA chemical plant area, Badia al Pino, Civitella Valdichiana, AR (Italy).
- 2011** - *Consultancy for Arezzo municipality*: General Hydrogeological and Geochemical study of Quarata quarries area, Arezzo (Italy).
- 2011** - *Consultancy for Terme di Saturnia Golf and SPA Resort (Grosseto, Italy)*: Geological and Hydrogeological study of Saturnia thermal area, Grosseto (Italy).
- 2010**: - *Consultancy for Studio Geotecnico Italiano, Milan*: Climatic and Hydrogeological study of Rome Fiumicino "Leonardo da Vinci" International Airport for DinSAR analyses, and realization of thematic maps
- 2010**: - *Consultancy for Province of Florence*: Remediation Project of Pianvallico industrial contaminated site (Mugello, Florence, Italy).
- 2010**: - *Project for Tuscany Region*: Feasibility study of an exploring tunnel for exploitation of Mt. Altissimo marble quarry (Apuane Alps, Italy). Project number PRO CREO 6744 2008
- 2010**: - *Project for Tuscany Region*: Data Collection, implementing and updating of geologic, geotechnic, hydrogeologic and pedologic data base of Tuscany Region
- 2010**: - *Project for Tuscany Region*: Natural Radioactivity measures for thematic mapping of abundance in Tuscany Region

- 2010:** - *Consultancy for Basin Authority of Serchio River:* Completing of landslides hazard mapping of territory of Basin Authority of Serchio River (Tuscany, Italy)
- 2009:** - *Consultancy for Province of Florence:* Integration of Feasibility study for remediation project of Pianvallico industrial contaminated site (Mugello, Florence, Italy)
- 2009:** - *Consultancy for University of Catania:* Numerical Modelling of Groundwater flow and contaminant transport in coastal carbonate aquifer of Augusta area (Siracusa, Sicily, Italy)
- 2009:** - *Project for Italian Civil Protection Department:* Differential GPS survey for monitoring effects of "L'Aquila" earthquake mainshock of 6 April 2009
- 2009:** - *Consultancy for Basin Authority of Serchio River:* Quantitative hydraulic monitoring of Serchio River flow through Acoustic Doppler Profiler system
- 2008:** - *Consultancy for Province of Florence:* Feasibility study for remediation project of Pianvallico industrial contaminated site (Mugello, Florence, Italy)
- 2008:** - *Project for Tuscany Region:* Regional Framework Program for research and technological transfer to industry, C.1. Geology and Natural Radioactivity, Sub-Project A: Geology
- 2008:** - *Consultancy for Tuscany Region:* Hydrogeological mapping of left bank area of Serchio River for integrating the Apuans Alps aquifer study (Tuscany, Italy)
- 2008:** - *Consultancy for Augustinian Sisters of San Giovanni Valdarno (Arezzo, Italy):* Differential GPS survey for reconstruction of bridge on Mutivaze River (Nampula district, northern Mozambique)
- 2007** - *Project:* Mineralizations measuring and geostatistic estimation of volume of asbestos in joints filling in rock mass for Genova-Voltri tunnel.
- 2007** - *Project:* Open source software for statistic and geostatistic analyses of environmental data.
- 2007** - *Project:* Geostatistics for per la modellizzazione dei depositi ligniferi nel comprensorio minerario di Santa Barbara, San Giovanni Valdarno (AR)
- 2006** - *Consultancy for Studio Geotecnico Italiano, Milan and ITALFERR S.p.A., Rome:* geologic-geomorphologic for Preliminary Project of expansion of Oristano-Chilivani/Sassari-Olbia railway
- 2006** - *Consultancy for Studio Geotecnico Italiano, Milan:* Analysis of pollution levels in a contaminated "high priority site" (Marche Region) for geostatistic evaluation of pollutants extension
- 2005** - *Consultancy for Emilia-Romagna Region:* land use mapping at 1:25000 scale in order to analyze the land use changes in the hilly and mountainous areas of Emilia-Romagna Apennines over the period 1954-1994.
- 2005** - *Consultancy for Studio Geotecnico Italiano, Milan:* Analysis of pollution levels in a contaminated "high priority site" (Emilia-Romagna Region) for geostatistic evaluation of pollutants extension
- 2003** - *Consultancy for Studio Geotecnico Italiano, Milan and ITALFERR S.p.A., Rome:* geologic-geomorphologic for Preliminary Project of expansion of Foligno-Nocera Umbra (PG, Umbria Region) railway.
- 2002** - *Project:* Landslides Susceptibility Mapping in Pergola (AN, Marche Region) and Val Marecchia (PU, Marche Region) areas by means probabilistics methods.
- 2002** - *Project for CARG national italian project:* Geological and Geomorphological survey at 1:10000 scale of 249040 "Piazza al Serchio" (Lucca) topographic section, for compiling of "Foglio 249 Massa-Carrara" 1:50000 scale, for CARG national project.
- 2001** - *Consultancy for Basin Authority of Serchio River:* Geographic Information System setting up and geographic database building, in conformity to actual laws.
- 2000** - *Project:* Geologic and Geothematic mapping (field survey, digitalization, and geothematic database building) of the northern part of Marche Region at scale 1:10000.
- 1999** - *Scholarship project:* geological database for planning and managing of Carrara's marble quarries.

1999 - *Project: Prototypes Maps of geological and geostructural remote sensing of Northern Sardinian batholith (Maddalena island, Sardinia, Italy)*".

## Work Experience: Academic

DATES	From July 2010 to July 2011
OCCUPATION OR POSITION HELD	Professor with a temporary appointment
MAIN ACTIVITIES AND RESPONSIBILITIES	Course in " <i>Reference and coordinate systems: theory and exercises</i> ", module of ERASMUS Intensive Programme (IP) Integrated Multidisciplinary Approach to Flood Risk Analysis - IMARA (2010, 2011)
NAME AND ADDRESS OF EMPLOYER	CGT Centro di GeoTecnologie dell'Università degli Studi di Siena (Centre for GeoTechnologies of University of Siena) Via Vetri Vecchi, 34 - 52027 San Giovanni Valdarno (Italy)
TYPE OF BUSINESS OR SECTOR	Academic
DATES	25 June 2011
OCCUPATION OR POSITION HELD	Professor with a temporary appointment
MAIN ACTIVITIES AND RESPONSIBILITIES	Course in " <i>Geostatistics: Case Studies</i> ", module of Course in "Applied Geostatistics for Environment and Territory" at "Istituto Professionale Raffaele Gorjux" - Via R. Bovio, n. 1 - 70125 Bari (Italy)
NAME AND ADDRESS OF EMPLOYER	SIGEA Societa' Italiana di Geologia Ambientale. Via Livenza, 6, 00198 Roma (Italy) SIGEA sez. Puglia- Bari (Italy), <a href="http://www.puglia.sigeaweb.it">www.puglia.sigeaweb.it</a>
TYPE OF BUSINESS OR SECTOR	Academic Consulting
DATES	From January 2005 to present
OCCUPATION OR POSITION HELD	Professor with a temporary appointment
MAIN ACTIVITIES AND RESPONSIBILITIES	Course in " <i>Environmental Geostatistics</i> " at Centre for Geotechnologies of University of Siena, for: <ul style="list-style-type: none"> <li>• MSc master in Environmental Geotechnologies (MSGA);</li> <li>• Master's Degree in Engineering geology;</li> <li>• Professional Course in Environmental Geostatistics.</li> </ul> Course in " <i>Statistics</i> " and " <i>Geostatistics</i> " at Centre for Geotechnologies of University of Siena (from 2009 to 2012), for: <ul style="list-style-type: none"> <li>• MSc master in Geographic Information System and Remote Sensing (SITT);</li> </ul> Course in " <i>Principi geostatistici per l'analisi dei dati ambientali (Geostatistics principles for environmental data analysing)</i> " (from 2009 to 2010), for: <ul style="list-style-type: none"> <li>• Short Course in "Analisi statistiche per la definizione del rischio ambientale (<i>Statistical analyses for defining the environmental risk</i>)"</li> </ul>
NAME AND ADDRESS OF EMPLOYER	CGT Centro di GeoTecnologie dell'Università degli Studi di Siena (Centre for GeoTechnologies of University of Siena) Via Vetri Vecchi, 34 - 52027 San Giovanni Valdarno (Italy)
TYPE OF BUSINESS OR SECTOR	Academic

DATES	From 1st January 2005 to 15th February 2010
OCCUPATION OR POSITION HELD	Research fellow in geological risks and geostatistics
MAIN ACTIVITIES AND RESPONSIBILITIES	Environmental Geostatistics
NAME AND ADDRESS OF EMPLOYER	CGT Centro di GeoTecnologie dell'Università degli Studi di Siena (Centre for GeoTechnologies of University of Siena) Via Vetri Vecchi, 34 - 52027 San Giovanni Valdarno (Italy)
TYPE OF BUSINESS OR SECTOR	Research
DATES	From 1st January 2000 to 30th September 2000
OCCUPATION OR POSITION HELD	Post Degree Scholarship
MAIN ACTIVITIES AND RESPONSIBILITIES	Geographic Information Systems and Remote Sensing
NAME AND ADDRESS OF EMPLOYER	Earth Sciences Department, University of Siena Via Laterino, 8 - 53100 Siena (Italy)
TYPE OF BUSINESS OR SECTOR	Research

## Personal skills and competences

### MOTHER TONGUE

### Italian

#### English

(TOEFL, tested in 23th Sept. 2003: vote 217/300)

#### French

#### Spanish

#### Portuguese

Understanding				Speaking				Writing	
Listening		Reading		Spoken Interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Indep. user	C2	Proficient user	B2	Indep. user	B2	Indep. user	B2	Independent user
B1	Indep. user	B2	Indep. user	A2	Basic user	A2	Basic user	A2	Basic user
A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

If you need guidance, consult the sample passports provided on <http://europass.cedefop.europa.eu>

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Common European Framework of Reference for Languages: © Council of Europe

### ORGANISATIONAL SKILLS AND COMPETENCES

- From June 2008 to Present, head of Applied and Environmental Hydrogeology of CGT Centre for GeoTechnologies fo University of Siena
- From 2005 to 2008, head of Environmental Risks and Geostatistics section, of Geomatics Laboratory, CGT Centre for Geotechnologies of University of Siena
- Person in charge for "Quality and Management System" of CGT Centre for Geotechnologies of University of Siena

TECHNICAL SKILLS AND COMPETENCES	<ul style="list-style-type: none"> <li>• Geostatistics</li> <li>• Spatial Analysis</li> <li>• Hydrogeology</li> <li>• Remote Sensing</li> <li>• Geological and Geomorphological Fieldwork</li> <li>• GPS Survey</li> <li>• Qualifying examination of Practice of Geology.</li> </ul>
COMPUTER SKILLS AND COMPETENCES	<p><b>Operating Systems:</b> Linux (Debian based distributions); Microsoft Window 98-XP-Vista-Seven; MacOS X</p> <p><b>Common Commercial Software:</b> Microsoft Office 95-XP, Adobe Photoshop 4-CSx, Adobe Illustrator 6-CSx, Macromedia FreeHand 8-MX</p> <p><b>Common open source software:</b> OpenOffice 3.x, Gimp, Inkscape</p> <p><b>Applied Software:</b> ESRI ARC/INFO 7.x - 9.x, ESRI ArcView 3.x, 3DAnalyst, SpatialAnalyst, Erdas 8.2-8.7, Menci Software StereoView Suite, GeoTop RFD, PCI Geomatica, ITC Ilwis, Geovariances ISATIS, Geostatistics for Windows, Geostokos Toolkit, R, SPSS, GRASS 6.x, Gamit, WHI Visual Modflow 4</p> <p><b>Programming Language:</b> R; FORTRAN 77-95</p>
ARTISTIC SKILLS AND COMPETENCES	Graphic designer, photographer
DRIVING LICENCE	Standard car license

## List of Selected References

### • Articles on Journals

1. Guastaldi, E. and Del Frate, A. (2012) Risk analysis for remediation of contaminated sites: the geostatistical approach. Environmental Earth Sciences, 65 (3), 897–916 Springer Berlin / Heidelberg, Issn: 1866-6280, <http://dx.doi.org/10.1007/s12665-011-1133-6>, DOI: 10.1007/s12665-011-1133-6
2. Caciolli, A., Baldoncini, M., Bezzon, G., Brogгинi, C., Buso, G., Callegari, I., Colonna, T., Fiorentini, G., Guastaldi, E., Mantovani, F., Massa, G., Menegazzo, R., Mou, L., Rossi Alvarez, C., Shyti, M., Zanon, A. and Xhixha, G. (2012) A new FSA approach for in situ gamma-ray spectroscopy. Science of Total Environment. 414, 639-645, <http://www.sciencedirect.com/science/article/pii/S004896971101271X>, DOI: 10.1016 / j.scitotenv.2011.10.071
3. Guastaldi, E. (2011). Geostatistical Modeling Of Uncertainty for the Risk Analysis of a Contaminated Site. Journal of Water Resource and Protection, 2011, vol. 3, no. 8, pages 563-583, doi:10.4236/jwarp.2011.38066 Published Online August 2011 (<http://www.scirp.org/journal/PaperInformation.aspx?paperID=6991>)
4. Carloni, A., Guastaldi, E., Ferrara, V., Gallo, C. (2011). Groundwater Protection using Numerical Simulations Applied to the Carbonate Aquifer Resource in the Augusta's Industrial Area (Sicily, Italy). Journal of Water Resource and Protection, 2011, vol. 3, No. 5 pages 283-294, doi:10.4236/jwarp.2011.35036 Published Online May 2011 (<http://www.scirp.org/journal/PaperInformation.aspx?paperID=4976>)
5. Disperati, L., Guastaldi E., Ciulli, A., Rindinella, A., Viridis, S. G. P. (2009), The high landslide susceptibility area of Corniglio (Parma, Italy): evidences of deep-seated slope gravitational deformation and ground displacements measurement from 1976 – 2008, ENGINEERING, HYDRO, ENVIRONMENTAL GEOLOGY, Volume 11; Pages 15-29, ISSN: 2038-0801, doi: 10.1474/GGA.2009-11.0-02.0245

6. Tonini, a., Guastaldi, E., Meccheri, M. (2009), Three-dimensional reconstruction of the Carrara Syncline (Apuane Alps, Italy): An approach to reconstruct and control a geological model using only field survey data. *COMPUTERS & GEOSCIENCES*, Volume 35, Issue 1, Pages 33-48. January 2009., doi: DOI: 10.1016/j.cageo.2007.09.010
7. Tonini, A., Guastaldi, E., Massa, G., Conti, P. (2008), 3D geo-mapping based on surface data for preliminary study of underground works: A case study in Val Topina (Central Italy). *ENGINEERING GEOLOGY*, Volume 99, Issues 1-2, 9 June 2008, Pages 61-69. (doi: DOI: 10.1016/j.enggeo.2008.02.010)
8. Ciulli, A., Guastaldi E., Rindinella, A., Viridis, S. G. P. (2007). Approccio multidisciplinare per lo studio ed il monitoraggio dei fenomeni franosi: il caso della frana di Corniglio (PR). *GIORNALE DI GEOLOGIA APPLICATA*. vol. 6, pp. 125-126 ISSN: 1826-1256. doi:10.1474/GGA.2007-06.A-24.
9. Salvini, R, Fantozzi, P.L, Guastaldi E., Anselmi, M., Ticci, M., Nevini, J., Riccucci, S., Cutini, S.. (2007). Come sono variate la geomorfologia e l'uso del suolo nel territorio delle Crete Senesi (Comuni di Asciano e di San Giovanni d'Asso) dal dopoguerra ad oggi. *ETRURIANATURA*. vol. Anno IV, pp. 31-39.
10. Salvini, R, Anselmi, M., Ticci, M., Nevini, J., Guastaldi E., Fantozzi, P.L. (2006). Fotogrammetria Digitale e High Resolution Remote Sensing per lo studio multitemporale delle variazioni geomorfologiche e di uso del suolo delle Crete Senesi. *RIVISTA ITALIANA DI TELERILEVAMENTO*. vol. 36, pp. 69-80 ISSN: 1129-8596.
11. Salvini, R, Guastaldi E., Coscini, N., Del Seppia, N.. (2006). Ricostruzione del paleoalveo del Fiume Serchio (Lucca) tramite rilievi LIDAR, foto aeree ed immagini Quick Bird. *IL QUATERNARIO*. vol. 19, 2, pp. 297-308 ISSN: 0394-3356.
12. Carmignani, L., Conti, P., Guastaldi E., Martinelli, M., Massa, G., Naldini, D., Regueire, E. D., Rossi, I M., Tonini, A, Vaselli, L.. (2003). Rilevamento geologico-geomorfologico e 3D modelling per il progetto di una galleria ferroviaria. *IL GEOLOGO*. Vol. 52.
13. Disperati, L., Guastaldi E., Carmignani, L. (2002). Landslide mapping and hazard prediction in the Pergola area (Marche, Italy). *TERRA NOSTRA*. vol. 04/2002, 2, pp. 507-512 ISSN: 0946-8978. 8th Annual Conference of the International Association for Mathematical Geology, IAMG 2002, 15-20 September 2002, Berlin, Germany.
14. Falaschi, R., Guastaldi, E., Lordo, A.. (2001). Fotogrammetria digitale per la l'analisi della fratturazione nei marmi apuani: esempi dal Carrarese. *GEAM. GEOINGEGNERIA AMBIENTALE E MINERARIA*. vol. 1, pp. 43-57 ISSN: 1121-9041. ATTI del Convegno conclusivo del progetto di interesse nazionale cofinanziato dal MURST.

#### • Articles on Books

1. Guastaldi E., Ragone, G. (2010). La geostatistica nella valutazione dell'estensione della contaminazione in siti potenzialmente inquinati. In Marco Mendola & Lorenzo Morra (eds.): *Manuale tecnico-operativo per la gestione dei siti contaminati*. 357 pp. DEI S.r.l. Tipografia del Genio Civile.
2. Benini A., Bonciani F., Callegari I., Conti P., Cornamusini G., De Donatis M., Di Grazia S., Falaschi R., Guastaldi E., Martelli L., Pieruccini P., Pignone S., Quagliere S., Rossini S. & Viti M.L. (2009) *Carta geologica d'Italia, Foglio 267 San Marino scala 1:50000*, Servizio geologico d'Italia, 2009.
3. Disperati, L., Guastaldi E. (2005). Analisi statistica della suscettibilità di frana nell'area di Pergola (Marche). In Ferrucci, E. M. & Zani, O. (eds.). *Rischio di frana e assetto idrogeologico nei territori collinari e montani: quesiti, metodi, esperienze a confronto*. Maggioli Editore, Sant'Arcangelo di Romagna, Italy. *Collana Ambiente & Territorio*, 629-646.

#### • Proceedings

- More than 50 conferences proceedings and others. The complete list of Enrico Guastaldi's Publications is available at the following URL: <http://enicoguastaldi.weebly.com/publications.html>