

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Enrico Duo**

Address(es) Via Saraceno 21
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Ferrara 44121
Italy

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enrico.duo@pec.it (use only upon agreement)

Skype enrico.duo

Nationality Italian

Date of birth 23rd January 1988

Gender Male



Main keywords

Civil and Environmental Engineering
Coastal Research
Developing Countries
European Project
Field Measurements
Geomorphology
Hydro-morphodynamics
International Research
Mountaineering
Numerical Modeling

Desired employment / Occupational field

International Research in Civil and Environmental Engineering – Coastal Engineering Research

Work experience

Dates **September 2014 - December 2015**

Occupation or position held Collaborator within Risc-KIT EU FP7 project

Main activities and responsibilities Numerical modeling, data compilation and analysis, field missions

Name and address of employer Consorzio Futuro in Ricerca
Via Saragat, 1, Blocco B, Piano 1
Ferrara FE 44122
Italy

Type of business or sector Coastal Engineering Research

Dates **April-July 2014**

Occupation or position held Collaborator within Risc-KIT project

Main activities and responsibilities Data compilation and analysis

Name and address of employer Consorzio Ferrara Ricerche
Via Saragat, 1, Blocco B, Piano 1
Ferrara FE 44122
Italy

Type of business or sector Coastal Engineering Research

Dates	2008-2010
Occupation	Private lessons Subjects: scientific, mainly mathematics and physics Student's education: scientific high school Frequency: regular for some months, otherwise occasionally
Dates	October 2008
Occupation or position held	Waiter and kitchen assistant
Main activities and responsibilities	Waiting services and food preparation
Name and address of employer	Roadhouse Grill Italia S.r.l. Via Eridano 2/D Ferrara FE 44122 Italy
Type of business or sector	Catering
Dates	August-September 2007
Occupation or position held	Hired hand
Main activities and responsibilities	Fruit harvesting
Name and address of employer	Ferrari Mirco Via Ponterigo 110 Ferrara FE 44124 Italy
Type of business or sector	Agriculture
Dates	April-July 2006
Occupation or position held	Cook assistant, waiter and beach assistant
Main activities and responsibilities	Food preparation, waiting services and beach activities
Name and address of employer	Bagno Faro S.a.S. di Marchetti Sergio & C. Via Jacopo della Quercia Lido di Spina FE 44022 Italy
Type of business or sector	Tourism and catering
Dates	August-September 2005
Occupation or position held	Hired hand
Main activities and responsibilities	Fruit harvesting
Name and address of employer	Ferrari Mirco Via Ponterigo 110 Ferrara FE 44124 Italy
Type of business or sector	Agriculture
Dates	August-September 2004
Occupation or position held	Hired hand
Main activities and responsibilities	Fruit harvesting
Name and address of employer	Bottoni Ugo Via del Parco 41 Ferrara FE 44124 Italy
Type of business or sector	Agriculture

Education and training	
Dates	2014-2017
Title of qualification awarded	PhD Degree in Earth Science
Principal subjects/occupational skills covered	Coastal Morphodynamics and Coastal Risk Field work: DGPS and Drone surveys, pressure transducers, sediment sampling, interviews, etc...; Numerical modelling: Delft3D, XBeach, FEWS and Bayesian Networks.
Name and type of organisation providing education and training	Università degli Studi di Ferrara - University of Ferrara Via Savonarola 9 Ferrara FE 44121 Italy
Level in national or international classification	-
Dates	2010-2014
Title of qualification awarded	Master Degree in Civil Engineering – Mark: 110/110
Principal subjects/occupational skills covered	Coastal dynamics Hydraulic and hydrodynamic modeling Modeling, designing and monitoring of hydrologic and hydraulic systems Monitoring and remote sensing Geotechnics Geology of earthquakes Structures in seismic zone Thesis: Development of a Delft3D tidal model of the Bay of Bengal and tide measurements along Sandwip Island (Bangladesh) Supervisor(s): Prof. Paolo Ciavola (University of Ferrara), Ir. Ap van Dongeren and Ir. Deepak Vatvani (Deltares, Delft NL)
Name and type of organisation providing education and training	Università degli Studi di Ferrara - University of Ferrara Via Savonarola 9 Ferrara FE 44121 Italy
Level in national or international classification	-
Dates	October 2013 – June 2014
Title of qualification awarded	Internship and MSc Thesis projects
Principal subjects/occupational skills covered	Coastal morphodynamics, numerical modeling Report: MSc Thesis - Development of a Delft3D tidal model of the Bay of Bengal and tide measurements along Sandwip Island (Bangladesh) Supervisor(s): Prof. Paolo Ciavola (University of Ferrara), Ir. Ap van Dongeren and Ir. Deepak Vatvani (Deltares, Delft NL) Funding: Erasmus Placement scholarship (3 months)
Name and type of organisation providing education and training	Deltares Boussinesqweg 1 2629 HV Delft Postbus 177 2600 MH Delft tel: +31 (0)88 335 8273 fax: +31 (0)88 335 8582
Level in national or international classification	Internship
Dates	2007-2010
Title of qualification awarded	Degree in Civil and Environmental Engineering – Mark: 110/110 with honor

Principal subjects/occupational skills covered: Buildings and Structures, Geotechnics, Hydraulics and hydrodynamics, Topography and representation, Statistics
 Thesis: Structural systems for thermal bridge reduction in balconies
 Supervisor(s): Prof. Alessandra Aprile and Prof. Stefano Piva (University of Ferrara)

Name and type of organisation providing education and training: Università degli Studi di Ferrara - University of Ferrara
 Via Savonarola 9
 Ferrara FE 44121
 Italy

Level in national or international classification: -

Dates: **2002-2007**

Title of qualification awarded: Scientific High School Diploma – Mark: 86/100

Principal subjects/occupational skills covered: Mathematics, physics chemistry and natural sciences
 Italian literature, latin, hystory and phylosophy
 English
 Arts

Name and type of organisation providing education and training: Liceo Scientifico “A. Roiti”
 Viale Leopardi 64
 Ferrara FE 44121
 Italy

Level in national or international classification: -

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
European level ()*

English

Certification

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2/C1	Upper intermediate/Advanced	C1	Advanced	B2	Upper intermediate	B2	Upper intermediate	B2/C1	Upper intermediate/Advanced
IELTS Certificate - Academic Module - 22 nd June 2013									

(*) *Common European Framework of Reference for Languages*

Social skills and competences

I have good aptitude in cultural exchange in both national and international contests.

Organisational skills and competences

I am a clear worker and I do the best under pressure. I can work in group but I prefer to work alone on specific problems and then compare results with partners in order to check progresses and plan next steps of job activities. If necessary I can organize the team and plan the activities.

During my abroad stay in Deltares (Delft NL) from Oct. 2013 to June 2014 I improved my organisational skills as well as group management ones.

Computer skills and competences	<p>I usually use Windows OS in different versions and I have advanced expertise in Microsoft Office packs (mainly Word, Excell and PowerPoint). I can use, as normal user, Photoshop, Skype, PDFCreator and several browsers.</p> <p>The majority of the following softwares has been studied and applied during my university studies:</p> <table data-bbox="507 300 919 600"> <tr><td>Matlab</td><td>advanced use</td></tr> <tr><td>Autocad</td><td>academic use</td></tr> <tr><td>HEC-RAS</td><td>academic use</td></tr> <tr><td>HEC-HMS</td><td>academic use</td></tr> <tr><td>EPANET</td><td>academic use</td></tr> <tr><td>EPA SWMM</td><td>academic use</td></tr> <tr><td>Star*Net</td><td>academic use</td></tr> <tr><td>ENVI</td><td>academic use</td></tr> <tr><td>Quantum GIS</td><td>academic use</td></tr> <tr><td>Straus7</td><td>academic use</td></tr> </table> <p>I am interested in Matlab code and its practical applications in different fields of civil and environmental engineering. I am able to write different useful algorithms about designing and managing civil and natural hydraulic systems, optimization problems and other fields.</p> <p>From Oct. 2013 to June 2014 I worked as MSc student in Deltares (Delft NL) learning and focusing on Delft3D hydrodynamics modelling. During this period I improved my Matlab skills and learned to use OpenEarth and other useful tools.</p> <p>Other numerical models/software used in coastal research: XBeach, FEWS, Bayesian Networks.</p>	Matlab	advanced use	Autocad	academic use	HEC-RAS	academic use	HEC-HMS	academic use	EPANET	academic use	EPA SWMM	academic use	Star*Net	academic use	ENVI	academic use	Quantum GIS	academic use	Straus7	academic use
Matlab	advanced use																				
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Star*Net	academic use																				
ENVI	academic use																				
Quantum GIS	academic use																				
Straus7	academic use																				
Other skills and competences	<p>I am keen on mountaineering, for different activities. I usually do free and ice climbing, skiing and trekking, mainly in the Dolomites (Italy) but also in other countries. These activities improved my stressful situations management and concentration skills. I am member of the Italian Alpine Club (CAI – Club Alpino Italiano) since 2012.</p>																				
Driving licence	Italian driving licence – Cat. B																				

Additional information

Participation in research projects

2013 - in progress
 Project: Risc-KIT EU FP7
 Main activities: data compiling and analysis, modelling and field measurements for WP1 Sandwip Island (BD) Case Study
 Main coordinator(s): Ir. A. van Dongeren (Deltares, Delft NL)
 WP coordinator(s): Prof. P. Ciavola (Consorzio Futuro in Ricerca, Italy)
 Promoter: EU and project partners

Research missions

2011 - in progress
 Project: Respiratory and cardiovascular health in high altitude residents exposed to indoor pollution – SHARE Project
 Main activities: field measurements and data analysis
 Coordinator: Prof. A. Cogo, Biomedical Sport Studies Center, University of Ferrara, Italy
 Promoter: Ev-K2-CNR

October 2014 - in progress
 Missions in several locations in the Ferrara and Ravenna coasts, Italy
 Project: PhD in Earth Science (Unife) and Risc-KIT EU FP7
 Main activities: topographic DGPS and Drone surveys, sediment samplings, flooding assessments and interviews
 Coordinator: Prof. P. Ciavola, University of Ferrara and Consorzio Ferrara Ricerche, Italy
 Promoter: Unife and CFR

February-March 2014
 Mission in Dhaka, Chittagong and on Sandwip Island (Bangladesh)
 Project: Risc-KIT EU FP7 (WP1)
 Main activities: tidal and topographic measurements
 Coordinator: Prof. P. Ciavola, University of Ferrara and Consorzio Ferrara Ricerche, Italy
 Promoter: CFR, WMO and Atlante Rotary Club (scholarship)

October 2011

Mission in Pangboche and Phakding, Khumbu Valley, Nepal (4000 and 2800 m a.s.l.)
 Project: Respiratory and cardiovascular health in high altitude residents exposed to indoor pollution – SHARE Project
 Main activities: metric survey of kitchens and analysis of correlations between ventilation parameters and medical data
 Coordinator: Prof. A. Cogo, Biomedical Sport Studies Center, University of Ferrara, Italy
 Promoter: Ev-K2-CNR

April 2011

Mission in Thame, Khumbu Valley, Nepal (3900 m a.s.l.)
 Project: Respiratory and cardiovascular health in high altitude residents exposed to indoor pollution
 Main activities: metric survey of kitchens and analysis of correlations between ventilation parameters and medical data
 Coordinator: Prof. A. Cogo, Biomedical Sport Studies Center, University of Ferrara, Italy
 Promoter: Ev-K2-CNR

September 2008

One-week stage at CERN, Geneva, Switzerland
 Project: Study about relativistic particles beam handling trough silicon crystal
 Main activities: silicon crystal test at SPS monitoring
 Coordinator: Prof. V. Guidi (University of Ferrara, Italy)
 Promoter: INFN

Publications

E. Duo, R.M. Bruno, M. Bartesaghi, B. Basnyat, M. Neupane, L. Pomidori, R. Sharma, G.B. Thapa, L. Pratali, and A. Cogo, Indoor pollution in high altitude dwellings: an assessment of affecting factors across some Sherpa villages in the Khumbu region, Nepal, Submitted to Indoor and Built Environment on April 2015.

R.M. Bruno, A. Cogo, L. Ghiadoni, E. Duo, L. Pomidori, R. Sharma, G.B. Thapa, B. Basnyat, M. Bartesaghi, E. Picano, R. Sicari, S. Taddei, L. Pratali, Cardiovascular function in healthy Himalayan high-altitude dwellers, Atherosclerosis, Volume 236, Issue 1, September 2014, Pages 47-53, ISSN 0021-9150, <http://dx.doi.org/10.1016/j.atherosclerosis.2014.06.017>.

Meeting and congress abstracts

R.M. Bruno, A. Cogo, L. Pomidori, E. Duo, M. Bartesaghi, L. Ghiadoni, B. Basnyat, S. Salvadori, E. Picano, and L. Pratali, Exposure to indoor air pollution induces endothelial dysfunction in nepalese high-altitude dwellers, Eur Heart J (2013) 34(1):doi:10.1093/eurheartj/ehs308.P2530

Meetings and congresses

8th – 9th May 2014

Risc-KIT Biannual Meeting
 Cripps Court, Magdalene College, Cambridge, United Kingdom
 Role: Attendee

17th – 19th September 2014

Coast Esonda 2014
 Ferrara Fiere, Ferrara, Italy
 Meeting: Le Direttive Acque e Alluvioni, Gestione e tutela della fascia costiera e del mare
 Role: Auditor

16th – 18th February 2014

Meeting of the National Coordination Team for the Coastal Inundation Forecasting Demonstration Project for Bangladesh (CIFDP-B), and the Work Package 1 meeting of the EU FP7 Resilience-Increasing Strategies for Coasts - toolKIT (RISC-KIT)
 Bangladesh Meteorological Department, Dhaka, Bangladesh
 Role: Attendee

20th -.22nd November 2013

Risc-KIT Kickoff Meeting
 Deltares, Delft, The Netherlands
 Role: Attendee

19th – 21st September 2012

Coast Expo 2012
 Ferrara Fiere, Ferrara, Italy
 Role: Auditor

	<p>25th November 2011 Il ruolo del geologo nella prevenzione e mitigazione dei rischi costieri Casa Matha, Piazza Andrea Costa 3, Ravenna, Italy Role: Auditor</p> <p>28th – 30th September 2011 Coast Expo 2011 Ferrara Fiere, Ferrara, Italy Role: Auditor</p> <p>6th – 10th July 2015 Title: Coast Tools Summer School 2015 - Building up knowledge on Coastal Processes: Principles and Techniques Location: Faro, Portugal Coordinators: André Pacheco and Susana Costas, Universidade do Algarve Promoter: Universidade do Algarve, Algarve, Portugal</p> <p>14th – 28th September 2013 Title: River Delta System Analysis and Management in Practise (RAMIP) Location: Jerez de la Frontera, Spain Coordinator: Prof. J. Heringa, HZ University of Applied Sciences, Vlissingen, The Netherlands Promoter: EU Erasmus Mundus IP 2012-13</p> <p>26th August – 4th September 2013 Title: Sedyment dynamics and associated risks Location: Ferrara, Italy Coordinator: Prof. P. Billi, University of Ferrara Promoter: EU Erasmus Mundus IP 2012-13</p> <p>Scholarships</p> <p>2013-2014 Scholarship: Atlante Rotary Club 2013-14 from University of Ferrara Motivation: MSc Thesis project in an extra-EU country Amount: used 2750 € out of 3000 € (maximal) Promoter: Rotary Club</p> <p>2013-2014 Scholarship: Erasmus Placement 2013-14 from University of Ferrara Motivation: Internship project in an EU country Amount: three monthly payment of 500€ Promoter: EU</p>
<p>References</p>	<p>Name: Prof. Paolo Ciavola Institution/company: University of Ferrara and Consorzio Ferrara Ricerche, Ferrara, Italy Contact: available on request</p> <p>Name: Ir. Ap van Dongeren Institution/company: Deltares, Delft, The Netherlands Contact: available on request</p> <p>Name: Dr. Boram Lee Institution/company: World Meteorological Organization (UN) Contact: available on request</p> <p>Name: Prof. Alessandra Aprile Institution/company: University of Ferrara, Ferrara, Italy Contact: available on request</p> <p>Name: Prof. Annalisa Cogo Institution/company: Biomedical Sport Studies Center, University of Ferrara, Ferrara, Italy Contact: available on request</p>