

**ERIC VAZ, PHD**  
Assistant Professor  
Ryerson University, Faculty of Arts  
Department of Geography  
350 Victoria Street  
Toronto, Ontario  
M5B 2K3, Canada

Dr. Eric Vaz is Assistant Professor at the Department of Geography, Ryerson University. With over fifty scientific contributions in his field, the Regional Science Association International nominated him the 'Rising Star' Award in 2012.

Eric's research focuses on the panoply of applications of spatial and geographical quantitative sciences, with a particular focus on planning, health and business. His international network extends to several renown Universities throughout the world such as: University of Heidelberg and University of Göttingen, Germany; Free University of Amsterdam, the Netherlands; New University of Lisbon and University of the Algarve, Portugal; Massachusetts Institute of Technology, Cambridge, Massachusetts; University of Business and Economics, Vienna; University of Goa, India; University of São Paulo, Brazil; Lund University, Sweden.

He has acted as principal investigator, co-principal investigator and investigator in a total of approved funding of over 2.2 million dollars in the last three years. This is a result of his interest in transdisciplinary approaches to science, and his multi-cultured background in fostering research and policy at international level.

*Wisdom is like a clear and fresh lake one can enter it from any side*  
Acharya Nagarjuna (ca. 150 CE)

## **CURRENT ACADEMIC APPOINTMENTS**

- 2012                    **Assistant Professor**  
Ryerson University, Department of Geography,  
Toronto, Canada
- 2012                    **Chair**  
SRC Committee, Department of Geography  
Ryerson University, Faculty of Arts  
Toronto, Canada

## **PAST ACADEMIC APPOINTMENTS**

- 2012-2013            **Council Member**  
Teaching and Learning Committee  
Ryerson University, Faculty of Arts  
Toronto, Canada
- 2012-2013            **Council Member**  
Ryerson Research Ethics Board  
Ryerson University  
Toronto, Canada
- 2012                    **Group Leader**  
Chair for GIScience, Department of Geography,  
University of Heidelberg, Heidelberg, Germany
- 2011 – 2012           **Invited Assistant Professor**  
Faculty of Economics,  
University of the Algarve, Faro, Portugal
- 2010 – 2012           **Director of Advanced Training**  
Research Centre for Spatial Organization and Dynamics  
Universidade do Algarve, Faro, Portugal
- 2012                    **Visiting Researcher**  
Faculty of Management and Economics - Spatial Economics  
Free University of Amsterdam, the Netherlands

- 2009 – 2011      **Lecturer**  
Faculty of Economics  
Universidade do Algarve, Faro, Portugal
- 2008 – 2011      **Researcher**  
Institute of Statistics and Information Management  
New University of Lisbon, Lisbon, Portugal
- 2010 – 2011      **Visiting Research Scholar**  
Sociology and Social Assistance  
University of Huelva, Huelva, Spain
- 2010                **Visiting Research Scholar**  
Institute for Economic Geography and GIScience,  
Vienna University of Economics and Business, Vienna, Austria
- 2007 – 2008      **Visiting Researcher**  
Research Centre for Spatial and Organizational Dynamics  
Faculty of Economics, Universidade do Algarve, Faro, Portugal
- May, 2009        **Visiting Fellow**  
Senseable City Lab  
Massachusetts Institute of Technology, Cambridge, MA.
- 2006 – 2007      **Assistant Researcher**  
Faculty of Human and Social Sciences  
Universidade do Algarve, Faro, Portugal

## **AWARDS**

- 2012                Regional Science Association International: *Rising Star* Award
- 2011                Advanced Training Course – European Space Agency  
European Space Agency
- 2010                Best Paper Award  
World Science Engineering Association, 2010
- 2010                Presentation of best Masters in Science Student Experience  
Universidade Nova de Lisboa

2009 Visiting Fellow Award  
Massachusetts Institute of Technology

2009 Summer School Grant – Marie Curie Grant  
University of Sussex, THEMES IV

2008 PhD Scholar (Environmental Sciences BD SFRH/4462/2008)  
Portuguese Science Foundation

2007 Travel Grant  
Computer Applications in Archaeology, 2007

2006 Selected for European Graduate Program for Sony International in Berlin  
SONY Europe

1996 Honor Mention Poetry Contest of National High Schools  
Municipality of Faro

## **MEMBERSHIPS**

2013 Member of the Canadian Association of Geographers

2011 Member of the Urban Economics Association

2009 Member of the International Society of Ecological Economics (ISEE)

2008 Member of USIG (Users of Geographic Information Systems, Portugal)

2008 Member of the Association of American Geographers (AAG, Member: 90038784)

2007 Member of the Portuguese Association of Regional Development (APDR)

2001-2006 Member of the Portuguese Association of Young Entrepreneurs (ANJE)

## **RESEARCH INTERESTS**

- Urban growth and urban sprawl in regional change
- Monitoring of heritage for sustainable development
- Spatial modeling and complex system dynamics
- Cellular automata, self-organizing maps and spatial clustering

- Land-cover / land-use change on soil erosion and climate change
- Renewable energy
- Health Geography

**SCIENTIFIC RESPONSIBILITIES**

- Member of the Organizing Committee of the 5<sup>th</sup> Workshop in Statistics, Mathematics and Computation: Methods and Application. Faro, Portugal, 11-12 July, 2011.
- Reviewer for the Israel Science Foundation, 2012

**REVIEWER FOR:**

Habitat International	Papers in Regional Science	Landscape and Urban Planning
Journal of Urban Management	Journal of Geographical Systems	Environment and Planning B
Environment and Planning C	International Journal of Sustainable Development	European Planning Studies
Cities	International Journal of Global Environmental Issues	

**GRANTS (Principal Investigator and Co-Investigator)**

Research Development Grant (SHASTRI – Indo-Canadian Institute)	\$10,000
Ryerson, Start-up Grant (Ryerson University)	\$10,000
Ryerson, Research Assistant Program Grant (Ryerson University)	\$4,000
Ryerson, Environmental Applied Science and Management	\$10,000

Grant (Ryerson University)	
CIEO Best Researcher 2012 (Portuguese Science Foundation)	\$5,000
CIEO Best Researcher 2013 (Portuguese Science Foundation)	\$,5000
Travel Grants	\$8,500
Portuguese Science Foundation	\$90,000
Strategic Team Grant in Applied Injury Research: Traumatic Brain injury and Violence: Reducing the risks, improving the outcomes (CIHR)	\$1,750,000
Smart Growth Planning and the Consumer Service Sector (SSHRC)	\$350,000
Ryerson Health Research Fund (Ryerson University)	\$5,920

**TOTAL APPROVED FUNDING**

**\$ 2,248,420**

**PEER-REVIEWED JOURNALS**

*Submitted*                      Jokar Arsanjani, J. and **Vaz, E.**, “Towards harnessing volunteered Geographic information projects for generating thematic land use maps: Selected European metropolis”, *International Journal of Applied Earth Observation*

*Submitted*                      **Vaz, E.** and Jokar Arsanjani, J., “Predicting Urban Growth of the Greater Toronto Area – Coupling a Markov Cellular Automata with Document Meta-analysis”, *Journal of Environmental Informatics*

*Submitted*                      **Vaz, E.**, Noronha, M. T., “Small and Medium Towns in Peripheries”, *Habitat International*

*Submitted*                      **Vaz, E.**, Noronha, M. T., “Vaz, E. and Nijkamp, P, 2013, Gravitational Forces in the Spatial Impacts of Urban Sprawl”, *Habitat International*

*Eric de Noronha Vaz, Curriculum Vitae, March 5th, 2014*

- Accepted*                    **Vaz, E.**, Managing urban coastal areas through landscape metrics: An assessment of Mumbai’s mangroves, *Ocean & Coastal Management*
- Submitted*                    Monteiro, V., Painho, M. and **Vaz, E.**, s heritage really important? A theoretical framework for heritage reputation using citizen sensing, *Habitat International*
- Accepted*                    Gomez, J. A., Noronha, M. T., **Vaz, E.**, “Sustainability in the trans-border regions? The case of Andalusia – Algarve”, *International Journal of Global Environmental Change*
- Accepted*                    Vaz, E, The future of landscapes: The regional science contribution to spatial understanding, *Applied Spatial Analysis and Policy*.
- Accepted*                    **Vaz, E.**; Painho, M. and Nijkamp, P. “Impacts on environmental law and regulations on agricultural land-use change and urban pressure”, *European Planning Studies*.
- 2014                            **Vaz, E.**, Noronha, M. T, Nijkamp, P., 2014, Exploratory Landscape Metrics for Agricultural Sustainability, Agroecology and Sustainable Food Systems,38(1): 92-108.
- 2014                            Helbich, M., **Vaz, E.**, Nijkamp, P., “Spatial Hedonic Models to Estimate Single Family Home Prices in Austria”, *Urban Studies*, 51(2): 390-411.
- 2013                            Vaz, E. and Bowman, L., An application for regional coastal erosion processes in urban areas: a case study of the Golden Horseshoe in Canada, *Land*, 2(4), 595-608 [p]
- 2013                            **Vaz, E.** and Campos, A.C., “A multi-dasymeric mapping approach for tourism – An application to the Algarve”, *Journal of Spatial and Organizational Dynamics*, 1(4): 265-277.
- 2013                            **Vaz, E.**, “A Graph theory approach for geovisualization of land use change: An application to Lisbon”, *Journal of Spatial and Organizational Dynamics*, 1(4): 254-264.

*Eric de Noronha Vaz, Curriculum Vitae, March 5th, 2014*

- 2013 **Vaz, E.**, Buckland, A., Worthington, K.,” A Regional Spatial-retrofitting Approach (RSRA) to Geovisualise Regional Urban Growth: An Application to the Golden Horseshoe in Canada”, *Journal of Spatial and Organizational Dynamics*, 1(4): 229-240.
- 2013 **Vaz, E.**, “The Spatial Business Landscape of India”, *Journal of Spatial and Organizational Dynamics*, 1(4): 241-253.
- 2013 Noronha, M. T.; Galindo, P.; Nijkamp, P., **Vaz, E.** “Innovative firms behind the regions: Analysis of regional innovation performance in Portugal by external logistic biplots”, *European Urban and Regional Studies*. DOI: 10.1177/0969776412474675
- 2013 Arsanjani, J. J., Helbich, M., **Vaz, E.** “Spatiotemporal Monitoring and Simulation of Urban Sprawl Patterns in a Dynamic Landscape - The Case of Interior Tehran Metropolitan Area”, *Cities*, 32:33-42.
- 2013 **Vaz, E.**; Walczynska, A. and Nijkamp, P. “Regional Challenges in Tourist Wetland Systems: An Integrated Approach to the Ria Formosa in the Algarve, Portugal”, *Regional Environmental Change*, 13(1): 33-42.
- 2012 **Vaz, E.**; Cabral, P.; Caetano, M.; Painho, M. and Nijkamp, P. “Urban heritage endangerment at the interface of future cities and past heritage: A spatial vulnerability assessment”, *Habitat International*, 36(2): 287–294.
- 2012 **Vaz, E.**; Caetano, M.; Nijkamp, P. and Painho, M. “A multi-scenario prospection of urban change – a study on urban growth in the Algarve”, *Landscape and Urban Planning*, 104(2): 201-211.
- 2012 **Vaz, E.**; Noronha, M. T. and Nijkamp, P. “Gravity Models for Agricultural Land-use change: The Case of the Algarve”, *International Journal of Foresight and Innovation Policy*, 2/3: 262 - 271



- 2011 **Vaz, E.**; Nainggolan, D.; Nijkamp, P. and Painho, M. “Crossroads of Tourism: a complex spatial system analysis of tourism and urban sprawl”, *International Journal of Sustainable Development*. 14(3), pp. 225-241.
- 2011 **Vaz, E.**; Caetano, M.; Nijkamp, P. “A Multi-level spatial urban pressure analysis of the Giza Pyramid Plateau in Egypt”, *Journal of Heritage Tourism*, 6(2), pp. 99-108.
- 2011 **Vaz, E.**; Caetano, M.; Nijkamp, P. “Trapped between antiquity and urbanism – a multi-criteria assessment model of the greater Cairo Metropolitan area”, *Journal of Land Use Science*, 6(4):283-299.

## MONOGRAPHS

- 2010 **Vaz, E.** “Regional Change in the Algarve: A Geographic Information Systems Approach”, (Universidade Nova de Lisboa: Lisbon).
- 2008 **Vaz, E.** “GIS From a Cultural Heritage Perspective: When Past and Future Collide”, (Universidade Nova de Lisboa: Lisbon).

## PEER-REVIEWED BOOK CHAPTERS

- In Press* **Vaz, E.** and Noronha, M. T., “Espaço e inovação. Comportamentos das empresas inovadoras nos territórios: Uma aplicação ao caso português”, Ed. Neto, P. And Serrano, M. M., Espaço: Perspetivas Multidisciplinares sobre a Construção dos Territórios.
- 2014 **Vaz, E.**; Noronha, M. T.; Nijkamp, P. “The Spatial-Institutional Architecture of Innovative Behaviour”, Chapter 3, Ed. Kourtit, K.,

- Nijkamp, P. and Stimson, R., Applied Regional Growth and Innovation Models: Advances in Spatial Science, pp. 35-50.
- 2011 **Vaz, E.**; Noronha, M. T.; Nijkamp, P. “Spatial Analysis for Policy Evaluation of the Rural World: Portuguese Agriculture in the Last Decade”, Chapter 7, Ed. Torre, A. and Traversac, J-B, Territorial Governance: Local Development, Rural Areas and Agrofood Systems. (Springer Verlag: Dordrecht), pp. 107-122.
- 2010 **Vaz, E.**; Bernardes, J. P. and Nijkamp, P., “*Past Landscapes for the Reconstruction of Roman Land Use: Eco-History Tourism in the Algarve*”, Ed. Krause, A. and Weir, E., Ecotourism: Management, Development and Impact, (NOVA Publishers: New York), pp. 241-255.
- 2009 **Vaz, E.** and Nijkamp, P. “*Historico-Cultural Sustainability and Urban Dynamics*”, Ed. Maciocco, G. and Serreli, S., Enhancing the City: New Perspectives for Tourism and Leisure, (Springer Verlag: London), pp. 155-174.
- 2008 Fernandes, S.; Noronha, M. T. and **Vaz, E.** “E-Learning Tool for Regional Development”, Ed. Putnik, G. D. and Cruz-Cunha, M. M., Encyclopedia of Networked and Virtual Organizations, (IGI Global: Hershey), pp. 467-474.

## CONFERENCE PROCEEDINGS

- 2013 Vaz, E., From Place to Space, 19th APDR Congress – “Placed Based Policies and Economic Recovery, 20-21st June, University of Minho, Braga, Portugal.

- 2013 Vaz, E., Galati, D., Worthington, K., 2013, Business Ecology: A spatial interpretation of India's business habitats", CIEO Seminar Series, University of the Algarve, Faro, Portugal.
- 2013 Monteiro, V., Painho, M., Vaz, E., Is the "outstanding universal value" of heritage really global?, CISTI 2013 (Iberian Conference of Information Systems and Technologies), 19th-22nd June 2013.
- 2012 **Vaz, E.** and Rai, S., A DPSIR Modeling Approach to Business Sustainability in Asia, Business Sustainability in Asia Conference, Bangkok, 2nd-5th November, 2012.
- 2012 Vaz, E. "From Ancient Landscapes to Future Cities: The claim of urban heritage endangerment" Regional Science Association International 2012, 9th – 12th May 2012, Timisoara, Romania.
- 2012 **Vaz, E.**; Noronha, M. T.; Nijkamp, P. "A Landscape Assessment of Changes in Agricultural Land Patterns in the Algarve: The Regional Challenge of Tourism and Agriculture" Regional Science Association International 2012, 9th – 12th May 2012, Timisoara, Romania.
- 2012 Dominguez, A.; Relinque, F.; **Vaz, E.**; Oltra, C. "Sustainability Crisis in the countryside of southern Europe: the perspective of local experts.", Planet Under Pressure 2012, 25th – 29th March 2012, Excel London, UK.
- 2011 **Vaz, E.**; Nijkamp, P.; Painho, M. "Gravitational Forces in Spatial Impacts of Urban Sprawl.", Complex-City Workshop, Tinbergen Institute, 5-6<sup>th</sup> December, Amsterdam, the Netherlands.
- 2011 **Vaz, E.**; Koch, M.; Krisztin, T., "Of Cells and Cities: a Comparative Econometric and Cellular Automata Approach to Urban Growth Modeling", 16th International Conference on Urban Planning and Regional Development in the Information Society GeoMultimedia 2011, 18-22 May 2011, Essen, Germany.

- 2010 **Vaz, E.** and Noronha, M. T., “Gravitational Models and Spatial Foresight: From Agricultural Policy to Agricultural Loss”, WSEAS Conference, 3-5 November 2010, Faro, Portugal.
- 2010 **Vaz, E.**; Caetano, M.; Nijkamp, P. and Painho, M., “A multi-scenario prospection of urban change – the case of urban growth in the Algarve”, European Regional Science Association Conference (ERSA) 2010, 19-23 August 2010, Jonkoping, Sweden.
- 2010 **Vaz, E.**; Brito, A.; Nijkamp, P. and Painho, M., “Impacts on environmental law and regulations on agricultural land-use change and urban pressure: the Algarve case”, European Regional Science Association Conference (ERSA) 2010, 19-23 August 2010, Jonkoping, Sweden.
- 2010 Galindo, P.; Noronha, M. T.; Nijkamp, P.; **Vaz, E.**, “Regional Innovation Performance of Firms in Portugal”, European Regional Science Association Conference (ERSA) 2010, 19-23 August 2010, Jonkoping, Sweden.
- 2010 **Vaz, E.**; Cabral, P.; Caetano, M.; Painho, M. and Nijkamp, P., “Urban heritage endangerment - proximity of future cities to past heritage: A spatial vulnerability assessment GIRA 2010 - Corporate Governance, Innovation, Social and Environmental Responsibility, 9-11 September 2010, Lisbon, Portugal.
- 2008 **Vaz, E.**; Noronha, M. T. and Nijkamp, P., “Rurality and Spatial Analysis for Decision Support”, IASME / WSEAS International Conference – Energy, Environment, Ecosystems and Sustainable Development, 11-13 June, Faro, Portugal.

## TEACHING EXPERIENCE

2012 - present	Location Analysis Department of Geography Ryerson University
2012 - present	The Retail Economy Department of Geography Ryerson University
2013	GIS for Decision Making Department of Geography Ryerson University
2012 – present	Retailing, GIS and Geodemographics Ted Rogers School of Management Ryerson University
2012	Geographic Information Science for Archeology and Heritage Institute of Geography University of Heidelberg
2011 – 2012	Knowledge and Information Management (Masters) Faculty of Economics Universidade do Algarve
2011 – 2012	Technical English (Undergraduate) Faculty of Economics Universidade do Algarve
2010 – 2012	Geographic Information Systems (Graduate) Research Centre for Spatial and Organizational Dynamics Universidade do Algarve

2009 – 2012                      Information Technologies (Undergraduate)  
Faculty of Economics  
Universidade do Algarve

2008                                Information Systems and Sciences – GIS (Undergraduate)  
Faculty of Economics  
Universidade do Algarve

### **POSTDOCTORAL ADVISING**

**Tatiana P. Smetanina**, 2011, University of the Algarve – Faculty of Economics, Portugal:  
Erasmus Mundus Action 2 Programme (co-advior with Prof. P. Pintassilgo).

### **PHD ADVISOR**

2. 2012, Miguel Oliveira, Spatial perception of towns in Portugal, an integrated wellbeing perceptron, University of the Algarve, PhD Programme in Innovation and Territory Management.
1. 2012, Vasco Monteiro, Is the “Outstanding Universal Value” of Heritage really Global?”, New University of Lisbon, PhD Programme in Statistics and Information Management.

### **MASTERS ADVISOR**

6. 2013, Noel Damba, Exploring Spatial Patterns in Housing and Health, Ryerson University, Masters in Spatial Analysis.
5. 2013, Jorge Lami Leal, Health Information Systems in the Algarve, University of the Algarve, Masters in Business and Innovation Management.

4. 2012, Rebecca Parker, Detecting cryptic plant populations via pseudo-remote sampling of insect- transported pollen loads, Ryerson University, Environmental Science and Management, Masters in Science.
3. 2012, Kevin Worthington, A WebGIS integration for Water Management – The case of Ontario, Ryerson University, Environmental Science and Management, Masters in Science.
2. 2012, Lisa Bowman, An Application for Regional, Coastal Erosion Processes in Urban Areas: A Case Study of the Golden Horseshoe, Ontario, Ryerson University, Masters in Spatial Analysis.
1. 2012, Mary Grunstra, Spatial Distribution of Haloacetic Acid Concentrations in treated and distribution Water – Samples in Drinking Water in Ontario, Ryerson University, Masters in Spatial Analysis

#### **UNDERGRADUATE ADVISOR**

1. Jenikka Premanathan, 2013, Wal-Mart Locational Preference in the York Region, Canada, Ryerson University, Department of Geography, Bachelors in Geographical Analysis.

#### **SCIENTIFIC RESEARCH SUPERVISOR**

**Daniel Galati**, Ryerson University, Department of Geography, Geocoding the Indian business Landscape (SHASTRI – Indo-Canadian Institute, Policy Research Grant, 2013)

**Keving Worthington**, Ryerson University, Environmental Applied Science and Management, WebGIS implementation for India’s business landscape (SHASTRI – Indo-Canadian Institute, Policy Research Grant, 2013)

**Pallavi Roy**, Ryerson University, Environmental Applied Science and Management, A percolation integration in urbanization processes applied to the GTA (ENSCIMAN Research Assistant Funds, 2013)

**Amy Buckland**, Ryerson University, Department of Geography, The Golden Horseshoe Land Cover, (Work Study RA Programme Grant)

**Rita Primavera**, 2010, University of Florence – Faculty of Economics, Italy: *Spatial Databases and Information for Sustainability*. (3 months)

**Davide del Prete**, 2011, University of Florence – Faculty of Economics, Italy: *Renewable Energy and Spatial Analysis for Portugal*. (6 months)

### **OTHER ACTIVITIES (NON-ACADEMIC)**

2001 – 2007	Serviorg – Event Organization and Consulting CEO / General Manager Faro
2004 – 2005	Verdesul – Agricultural Technology Logistics and R&D Manager (Academic Internship) Faro
2003 – 2005	EGO PRIMIS – Tutoring and Consulting Sub-director and Responsible for Recruitment Faro
2000 – 2002	IJP (Portuguese Youth Institute) Cultural and Environmental Information Officer Faro
1999-2000	Cashier Goodies and Baskin Robbins Ibersol Portugal and Baskin Robbins Lisbon



1999 – 2000	BIC – Business and Innovation Centre (Algarve-Huelva) Project and Marketing Consultant Olhão
1999	LXMax – Marketing and Design Designer (Trainee) Faro
1998 – 1999	Residêncial Santa Eulália Assistant Director Albufeira
May, 1997	Translation Services: German to Portuguese <i>Marcuse: Hegels Ontologie und die Theorie der Geschichtlichkeit</i> Universidade do Algarve, Faculty of Human Sciences
March, 1997	Construction of Access Database of Hotels in the Algarve Tools: Access and Excel Universidade do Algarve, Faculty of Economics
July, 1996	Inquiries on Regional Wines in the Algarve Tools: Access and Excel Universidade do Algarve, CIDER

## **EXTRA-CURRICULAR COURSES**

2009	Environmental Statistics <i>Background and Sampling, Environmental Data Analysis, Monitoring and Impact Assessment, Spatial and Censored Data, Monte Carlo Risk Assessment</i> Statistics.com (Instructor: Dr. Bryan Manly)
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- 2009 Spatial Statistics with Geographic Information Systems  
*Geographical data, statistics, describing spatial data using maps; The analysis of patterns in point data: introductory methods for detecting non-randomness in dot/pin map distributions; The analysis of patterns in area data: detecting and measuring spatial autocorrelation in lattice data; The analysis of continuous field data: creating contour-type maps using inverse distance weighting and geostatistical methods.*  
 Statistics.com (Instructor: Dr. David Unwin)
- 2009 Regression Analysis  
*Foundations of simple linear regression; Multiple linear regression; Model Building I; Model Building II*  
 Statistics.com (Instructor: Dr. Iain Pardoe)
- 2007 MIG – Geographic Information Metadata  
*Knowledge, Recognition, Analysis and Practical Documentation of GI Metadata. Requisites for implementation in the Core MetaDate (INSPIRE) ISO 19115 and INSPIRE, ISSO 19139 – Implementation Specification. Using MIG Editor.*  
 Portuguese Geographic Institute
- 2007 Projection and Georeferencing in a GIS  
*Georeferencing and Projection*  
 ESRI – Environmental Research Institute
- 2006 Certification in Database Management (210 h)  
*Design and Database Modeling, Creation and Development of Databases in Access, Creating Applications in Access, Administration and Implementation of Databases, SQL Server Administration, SQL Server Programming, Environment Hygiene and Safety at Work*  
 Rumos Informática

- 2006 ArcMap 9.1 Course Application in 3D Environments  
*ArcMap 9.1 in 3D Environments*  
ESRI – Environmental Research Institute
- 2006 ArcMap 9.1 Course  
*Complete ArcMap 9.1*  
ESRI – Environmental Research Institute
- 2006 Workshop in Geodatabases  
*Creation of Geodatabases in ArcMap*  
ESRI – Environmental Research Institute
- 2006 Certified National Tutor (Certificação de Aptidão Pedagógica)  
*(CAP) Pedagogical Techniques, Presentations, Creation of  
Education Projects*  
PLANICÔA
- 2005 Webmarketing and Site / Content Management (210 h)  
*Creation, Management and Organization of Web Components,  
Advanced Macromedia Dreamweaver, Advanced Macromedia  
Flash, E-Marketing*  
Companhia Própria
- 2006 Advanced Excel – Visual Basic for Applications (50 h)  
*Excel, Visual Basic, Visual Basic for Applications, VBA in Excel*  
ANJE (National Association for Young Entrepreneurs)
- 2004 Course in Enology and Wine Tasting (50 h)  
Decanting of old Wines, Serving temperature, Properties of  
grapes and soils, Producers, Tasting and Quality Evaluation  
Adega do Rio
- 2003 Macromedia Dreamweaver (20 h)  
*Macromedia Dreamweaver MX, Basic Level and Intermediate*

	<i>Level</i>
	Serviorg
2003	Macromedia Flash (20 h) <i>Macromedia Flash MX, Basic Level and Intermediate Level</i> Serviorg
2003	Advanced Course in Accounting and Finances (210 h) <i>Applied Accounting, Accounting Principles, Industrial Accounting, Financial Analysis, Auditing</i> ANJE (National Association for Young Entrepreneurs)
2003	Design and Graphic Computation (210 h) <i>Autocad, Corel Draw and Adobe Photoshop</i> Microcamp

## **ITC KNOWLEDGE**

GIS and CAD	ESRI – ArcGIS (Advanced), Q-GIS (Advanced), IDRISI (Advanced), AutoCAD (Intermediate), ILWIS (Intermediate)
Artificial Intelligence	NetLogo (Intermediate), STELLA (Intermediate)
Programming	R (Intermediate), C (Intermediate), Java (Basic), Python (Intermediate)
Internet	Dreamweaver (Advanced), Flash (Good), Frontpage (Good)
Databases	SQL (Good), UML (Basic), XML (Basic), Oracle Spatial (Basic), Oracle (Basic), PostGIS (Basic)
Design	Corel Draw (Advanced), Corel Photo Paint (Advanced), Adobe Photoshop (Advanced), Adobe InDesign (Good)

Microsoft Office	Access (Advanced), Excel (Advanced), Powerpoint (Advanced), Project (Intermediate), Word (Advanced), Project (Intermediate), Outlook (Advanced)
Citation	EndNote (Advanced); SENTE (Advanced); Zotero (Advanced)
Mathematics	SPSS (Intermediate), MatLab (Intermediate), Mathematica (Basic), Gretl (Basic)
Operating Systems	Mac OS X (Advanced), Microsoft Windows (Advanced), Ubuntu Linux (Basic)
Hardware	Disk and Drive Installation, Network Installation, Wireless Configuration (TCP / IP Protocols), Internet Configurations, script development

## **LANGUAGES**

Portuguese	First Language
German	Comprehension: Very Good; Written: Very Good; Spoken: Very Good (Second Language)
English	Comprehension: Very Good; Written: Very Good; Spoken: Very Good
Spanish	Comprehension: Good; Written: Fair; Spoken: Good
French	Comprehension: Fair; Written: None; Spoken: Fair
Dutch	Comprehension: Fair (Reading); Written: None; Spoken: None

**INTERESTS** Classical Music, Opera, Literature, Writing, Travelling and Classical Guitar.