# JAIRO H. GARCIA

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## EDUCATION

**Doctor of Education in Educational Technology**
Pepperdine University**,** Los Angeles, CA - (2010)
> *Dissertation*: "Assessment of Education for Sustainable Development in Universities in Costa Rica"

**Master of Science in Sustainability Management**
Columbia University, New York, NY - (2012)
> *Capstone Project*: "Insurance, Climate Change and Flood Resilience in New York City". Client: New York City Mayor's Office of Long-Term Planning and Sustainability

**Master of Science in Telecommunications and Network Management**
Syracuse University, Syracuse, NY - (2001)

**Bachelor of Science in Electronic Engineering**
Universidad del Cauca**,** Popayán, Colombia – (1993)

## ACADEMIC EXPERIENCE

**UCLA Extension**, Los Angeles, CA (2012-Present)
*Instructor Global Sustainability*
- Teach on-line classes in Global Sustainability and Water Rights

**Earth Institute, Columbia University**, New York, NY (2011-May 2012)
*Intern Research Associate in Sustainability Management*
- Participated in the development of curriculum and learning tools for new Earth Institute certificates in Sustainability Metrics, Climate Change Policy, and Sustainable Water
- Participated in the development of the Earth Institute's Education Guide 2011-2012
- Conducted research in metrics for sustainability for publications and academic papers on behalf of the faculty
- Researched NSF funding for Earth Institute initiatives
- Selected to be a Teaching Assistant for the following Earth Institute classes:
  - *Earth Institute Practicum* (Fall 2011)
  - *Science of Sustainable Water* (Spring 2012)

  Roles: Met with faculty to review course material, addressed student inquiries, held office hours for students, and assisted in the grading of problem sets and examinations

*VP of Academic Affairs*: Sustainability Management Program Student Association (SUMASA)
*Cofounder and Special Advisor*: Columbia University Coalition for Sustainable Development (CUCSD)

**University of Phoenix**, Online (2010-Present)
*Faculty, Graduate School of Information Technology*
- Teach online graduate classes in Information Technology with a focus on Green IT
- Improved the online curriculum by participating in the information technology program

## PUBLICATIONS AND PRESENTATIONS

- Nugent, D., Rodriguez, L., & Garcia, J. (2012*). New Approaches in Graduate Education for Sustainable Development: Modalities of Field Training in the Master's in Development Practice Programs*. In W. Leal, *Sustainable Development at Universities: New Horizons*. Frankfurt: Peter Lang Scientific Publishers.

- Garcia, J. (2011). *The Role of Costa Rican Universities in Sustainable Development: Comparative Analysis between Public and Private Institutions and its Implications for the Latin American Region*. New York, NY: 17th Annual International Sustainable Development Research Conference (ISDRC).

- Garcia, J. (2010). *Education for Sustainable Development in Universities in Costa Rica*. Denver, CO:  Annual conference of the Association for the Advancement of Sustainability in Higher Education (AASHE).

- Kim, E. & Garcia, J. (2007). *A Methodology for International Research on Technology and Economic Development*. Honolulu, HI: Hawaii International Conference on Education.

- Garcia, J. (2007). *Comparative Analysis of Technology in Higher Education in China, India and Mexico as a Factor for Economic Development*. Tampico, Mexico: Latin American and Caribbean Conference for Engineering & Technology.

## ACADEMIC AWARDS

- Innovation Scholarship Award 2012, Columbia University, New York, NY

- Phi Delta Kappa International Honors 2010, Pepperdine University, Los Angeles, CA

- Certification of Appreciation for Notable Services towards the advancement of the engineering education profession 2007, Institute of Electrical and Electronic Engineers (IEEE), Atlanta, GA

## PROFESSIONAL EXPERIENCE

**GlobalEdTech**, Atlanta, GA (2009-2011)
*Consultant in Technology & Sustainability*
- Assist organizations by implementing innovative technologies to reduce their corporate footprint and increase their bottom line
- Assist educational institutions implement programs in sustainability

**Nortel Networks**, Atlanta, GA (2000-2009)
*International Consultant in Computer Networks Engineering*
- Project Management Experience: Designed and deployed computer networks and worked on data centers optimization for Fortune 500 organizations in more than 20 countries.
- Participated in the Coca-Cola effort to reduce by 23% the energy consumption at its headquarters in Atlanta Georgia, eliminating more than 10,000 metric tons of $CO_2$ and saving to the company over a million dollars in utilities annually. Effort included the

deployment of VoIP, installation of low-energy QoS switches, and the consolidation of network gear and servers in two of the remaining computer rooms.
- Replicated similar efforts for Coca-Cola at their data centers in Rio de Janeiro, Brazil, in Johannesburg, South Africa, in Cidra, Puerto Rico, and in Ballina, Ireland.
- Assisted Bombardier to converge networks and reduce their carbon footprint at their airplane assembly facility in Queretaro, Mexico in 2008.

**Vanderbilt University, MC**, Nashville, TN (1997-2000)
*Computer Networks Analyst*
- Designed, deployed, and maintained Vanderbilt hospital's fast-paced and mission critical computer networks infrastructure consisting of 14,000 work stations and 200+ computer servers

**South American Exchange,** New York, NY (1995-1997)
*Telecommunications Manager*
- Managed telecommunication installations in 15 countries; managed multimillion-dollar budgets assigned to the telecommunications department; directed a team of 20 engineers worldwide

**National Telecommunications Company**, Popayan, Colombia (1988-1995)
*Telecommunications Engineer (Governmental Organization)*
- Deployed and maintained telecommunications equipment in rural areas of Colombia

## CERTIFICATIONS/COURSEWORK

- **Oxford University (2010):** Coursework in Globalization (Economics). Director Dr. Jonathan Michie.
- **French Republic Ministry of National Education and Research (2010):** Certification of Achievement in French Language DELF A2.
- **The Grant Institute (2007):** Certificate in Program Development and Evaluation, Advanced Grant Writing, Strategic Grant Research, and Advanced Communication Strategies
- **Telecommunications Certificate (1996):** City University of New York

## PROFESSIONAL AFFILIATIONS

- US Partnership for Education for Sustainable Development
- World Association for Sustainable Development
- Earth Charter Volunteer
- International Engineering Consortium
- International Forum of Educational Technology and Society
- Comparative International Education Society

## LANGUAGES

- Spanish: Fluent
- French: Read/Write Conversational
- Portuguese: Conversational