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PROFESSIONAL EXPERIENCE

Founder/Owner; Geoinformática, Inc., 2002 – current (some relevant projects)

- Developing a Sea Level rise visualization project for Puerto Rico Sea Grant
- Prepared cartography for various land management plans for small farms in Puerto Rico.
- Developed a multicriteria analysis of raw sewage spills within the San Juan Bay Estuary
- Developed GIS analysis and cartography for various projects for the Puerto Rico Land Conservation Trust
- Prepared, with a team, the hazard mitigation plans for various municipalities in Puerto Rico.
- Implemented the GIS data QC/QA for an asthma related project for the US EPA using the EPA Metadata Editor.
- Offered GIS (ArcGIS) software training to the municipalities of Trujillo Alto and Juncos.
- Prepared GPS field data collection for INTECO, a Caguas based NGO.

Part time lecturer (as PhD Student), Rutgers University, New Jersey 2011-2014

- Taught the introductory course to GIS using ArcGIS 10.1 to graduate and undergraduate students at the Rutgers University, Bloustein School of Public Policy and Planning as well as an elective course on current Latin American environmental issues.

Instructor; Universidad del Turabo Caguas PR, Mar 2006 – 2011

- Co-PI for the NSF funded Puerto Rico GEOModel project, a science education project aimed at the full education pipeline from Primary School to Graduate School with an emphasis in the Geosciences.
- PI for the INTECO Permitting Project, a web mapping based project using ArcGIS to help speed the permitting processes in Puerto Rico by documenting available buildings and potential siting locations for larger enterprises.
- Co-PI for the NOAA funded GeoExplorers project, a science education project, in charge of technological implementation of GIS in the curriculum for High School students in the Caguas region.
- Director of the Center for GIS Research in charge of developing research and education proposals and GIS support services to the University Community.

Project Coordinator; Universidad Metropolitana San Juan PR, Feb 2001 – Jan 2005

- Co-PI for the EPA funded, Puerto Rico Sustainable Land Use Index Project. In charge of GIS implementation and data analysis June 2005 – June 2007.
- Co-PI for NASA funded Curriculum Improvement Partnership Award. In charge of project development and implementation, developed all curricula for 2 Bachelor's degrees in GIS to be offered at UMET (ended in 2004).
- Coordinated of the GIS-Web Lab of the Environmental Affairs School for a FEMA funded Island Wide Natural Hazard Mitigation and Sustainable Development. (ended in 2002)
- Prepared a series of seminars related to environmental hazards and planning in Puerto Rico aimed at municipal employees.
- Prepared a GIS seminar for Middle School teachers in the island of Vieques.
- Taught the Introduction to GIS Course at the Graduate Level.
- Advised Graduate and Undergraduate students.
- Tasked with Proposal Writing and Development.

Senior Training Assistant GIS-DE Program; Clark University Worcester, MA, Aug.-Dec 2000

- Designed a full set of course projects for students to cover needed GIS skills.
- Co-taught the GIS and Development graduate level seminar. (Geog 393)
- Teaching Assistant for the GIS and Local Planning Course. (Geog 276)
- Advised GIS Master's degree level students on technical issues and their final projects.
- Maintained and enhanced the GIS-DE website.

Director of GIS; Estudios Tecnicos, Inc. San Juan, Puerto Rico 1996 – 1999

- In charge of GIS analysis and proprietary data development.
- Managed the GIS department, database maintenance and cartographic output, as well as quality control of all GIS related issues in Puerto Rico's largest planning consulting firm.
- Lead the office team in the development of guidelines for the reforestation of Puerto Rico's watersheds.
- Facilitated access to all Census related information for socioeconomic analyses performed routinely by the firm.
- Developed the cartography for various types of projects such as Land Use Plans, CRA Compliance Studies, Business Plans, Environmental Assessments, and Technical Studies.
- Trained coworkers in GIS software and mapping techniques.

GIS Analyst at the Puerto Rico Planning Board San Juan, PR. 1993 – 1996

- Hand digitized zoning maps.
- Served as liaison with other central government agencies.
- Implemented Quality/Control protocols to improve the central government GIS databases.
- Conducted several seminars on the uses and limitations of GIS.
- Served as interim director on several occasions, supervising up to 10 people.

Hydrologist Assistant at the US Geological Survey; Water Division, Cataño Puerto Rico 1991 (*part time*)

- Digitized watershed related maps for various critical sedimentation and erosion studies in Puerto Rico using GIS ArcInfo Software

EDUCATION AND TRAINING

- PhD coursework in Planning and Public Policy at the Bloustein School of Public Policy and Planning at Rutgers University at New Brunswick.
- Master's degree from Clark University in GIS and International Development.
- BA in Social Sciences with a specialization in Latin America and The Caribbean, from the University of Puerto Rico San Juan Campus (1993)

PUBLICATIONS

- Vélez C., A. **González-Toro** and A. Rivera-Rentas. 2009. *Isolation and identification of airborne fungi that can cause asthma: a case study from Eastern Puerto Rico*. International Journal of Environmental Technology and Management 10(3/4): 243 – 259.
- López-Marrero, T.; **González-Toro, A.**; Heartsill-Scalley, T., Hermansen-Báez, L.A. 2011. *Multi-Criteria Evaluation and Geographic Information Systems for Land-Use Planning and Decision Making*. [Guide]. Gainesville, FL: USDA Forest Service, Southern Research Station. 8 p.
- González-Toro, A.** Book Review: "Emerging Caribbean: a Political Geography", by M. Bégot, P. Buléon and P. Roth. Forthcoming: Caribbean Studies.

February 2017

PRESENTATIONS

2016 – GIS for Land Management

2016 – GIS para pequeñas fincas

- 2010 *Distribución geográfica de las escuelas en Puerto Rico clasificadas en mejoramiento escolar*. 15^{ta} Conferencia Anual del College Board “Educación: clave para nuestro proyecto de País”. San Juan, Puerto Rico. November 5. (L. Iturralde Albert, Y.A. Velázquez Oliver, **A. González Toro** and C. Hernández)
- 2010 *GEOModel Project: Teaching Global Climate Change to High school Students in Puerto Rico*. Association of American Geographers Annual Meeting. Washigton, DC. April 15-18. (Poster presentation)
- 2010 *The Uses of GIS in Pre-college Education*. Science Symposium 2010. University of Puerto Rico-Carolina Campus, Carolina, PR. April 2010.
- 2009 *EEP High School Science Pipeline Geo-Explorers at Universidad del Turabo: Learning and Teaching the Business of Science- Lessons Learned*. NOAA-NCAS Fifth Education and Science Forum. Howard University Washington DC. Nov 12-14. (Poster presentation)

RELEVANT GIS SOFTWARE

- Arc GIS 10+, Idrisi Selva, EPA Metadata Editor, , HAZUS/MH, Maptitude, MapInfo, QGIS and Manifold GIS.
Other: Stella Modeling Software, STATA and R,.