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## Carlos Patino

### Objective

To obtain a position in water resources / environmental engineering, preferably related to hydrology, hydraulic and water management.

### Education

**University of Texas at Austin**  
**PhD, Civil Engineering, Environmental and Water Resources Engineering.**  
**Expected August 2005**  
Advisors: Dr. Daene C. McKinney & Dr. David R. Maidment  
Cumulative GPA: 3.6/4.0

Austin, Texas

**National Politecnico Institute of Mexico**  
**Master of Science in Hydraulic Engineering, August 1993**  
Thesis title – Experimental Analysis of the dam break phenomenon  
Cumulative GPA: 3.65/4.0  
National Politecnico Institute of Mexico  
**B.S in Civil Engineering, 1990**  
Specialized in hydraulic engineering.

Mexico City, Mexico

Mexico City, Mexico

### Professional experience

**Center for Research in Water Resources at the University of Texas**  
**Research Assistant, 2002 – Present**

Austin, Tx

- Participated in multiple studies focused on the application of GIS in water resources management.
- Application of a methodology to calculate hydrologic parameters in GIS at a river basin scale
- Coordination and participation as instructor in the ArcHydro training Course offered to the TCEQ
- Coordination and participation as instructor in the ArcHydro training Course in Spanish, offered to the National Water Commission of Mexico in Mexico City

Worked on the Water Management Information System for the Rio Grande/Bravo basin in cooperation with USGS, Texas Commission on Environmental Quality, International Boundary Water Commission, National Water Commission of Mexico, Mexican Institute of Water Technology of Mexico, and National Institute of Geography and Statistics of Mexico. The project included the development of a relational geodatabase in GIS based on the ArcHydro structure that was created including hydrologic spatial and temporal information from both sides of the Rio Grande/Bravo basin.

**Mexican Institute of Water Technology (IMTA)**  
**Researcher, 1994-2001**

Cuernavaca, Mexico

Performance in the fields of water measurements in canals, dams and irrigation districts. Development of a new device to irrigate small parcels in poor areas. Participation in several projects as leader in cooperation with the National Water Commission of Mexico. General planning and coordination of technical conferences and meetings.

National Politecnico Institute of Mexico. **Assistant Profesor**, 1993-1994  
Profesional Development Institute of Mexico. **Profesor**, 1990-1992

Mexico City, Mexico  
Mexico City, Mexico

### Publications

- Carlos Patino, Daene McKinney, and David Maidment, May 2004. **Development of a hydrologic geodatabase for the rio Grande/Bravo basin**. Kenneth J. Lanfear and David R. Maidment (Editors), 2004. AWRA's 2004 Spring Specialty Conference "Geographic Information Systems (GIS) and Water Resources III."
- **Water Management Information System for the Rio Grande/Bravo basin**, CRWR GIS Hydro CD, ESRI annual international user conference, 2004.
- C. Patino, D. McKinney, and D. Maidment, Nov 2004. **Water Management Information System for the Rio Grande/Bravo Basin: Creation of a Georeferenced Data Base**. 2<sup>nd</sup> International Symposium on Transboundary Waters Management. Tucson AZ
- C. Patino, D. McKinney, and D. Maidment, Nov 2004. **Raster-Network Regionalization Process Applied to the Rio Grande/Bravo Basin**. 2<sup>nd</sup> International Symposium on Transboundary Waters Management. Tucson AZ
- C. Patino, D. McKinney, and D. Maidment, Nov 2004. **Water Availability Model and Geodatabase Development for the Rio Grande/Bravo Basin**. 1<sup>st</sup> International Symposium on Transboundary Waters Management. Monterrey, Mexico

### Honors

- National Council of Science and Technology (CONACYT) of Mexico – Scholarship Jan 2001 – Dec 2005
- Who's who in the American College – December 2001
- National Water Commission of Mexico – Scholarship 2003

### Computer Skills

**Software:** ArcGIS 8.x & 9.0, ArcView, Microsoft Office (Excel, Access, Word, Power Point), Visio (Database Design)  
**Programming:** Visual Basic 6

