

RESUME

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I. PROFILE

A Chilean professional Civil Engineer with a MSc degree and currently PhD student at Colorado State University. From July 2003 to July 2004, he was assistant professor in the Department of Hydraulic Engineering, Universidad Católica, Chile. During the last six years he has gained a good understanding of Stormwater, Urban Hydrology and Physical Hydrology. Able to work on own initiative or as part of a team.

II. EDUCATION

- 2004-** : PhD candidate, Department of Civil Engineering, Water Resources and Hydrologic Sciences, Colorado State University.
Subjects studied: Urban Hydrology and morphology.
- 2001-2003** : MSc in Civil Engineering, Hydraulic and Environmental Engineering Program. Pontificia Universidad Católica de Chile.
Subjects studied: Urban Hydrology.
- 1996-2002** : BSc. in Civil Engineering. Pontificia Universidad Católica de Chile.
Subjects studied: Hydrology, Hydraulic, Sediments, Urban Stormwater, Structural Design, and Stochastic Processes in Hydrology.
- 1992-1995** : High School, Instituto Chacabuco de Los Andes.

III. EXPERIENCE

Spring/Summer 2006, Colorado State University, Department of Civil Engineering and the city of Fort Collins

Sampling and analysis of water quality parameters in urban ponds.

June and July 2005, and February, 2006 Urban Watersheds Research Institute, Aurora, Colorado

Instructor in the workshop: "EPA's SWMM 5.0 and New CUHP Interface". The other two instructors are Larry Roesner (Colorado State University) and Ben Urbonas (Urban Drainage & Flood Control District, Denver)

2004 – until now, Colorado State University, Department of Civil Engineering
Graduate research assistant

Winter 2004, Universidad Católica de Chile, Department of Hydraulic and Environmental Engineering

Engineer

Project: “An autonomous interface to modify DEM using GIS. Programming in Visual Basic”

2003 – 2004, Universidad Católica de Chile, Department of Hydraulic and Environmental Engineering

Assistant Professor

Course: Fluid Mechanics

Fall 2002, Colorado State University, Department of Civil Engineering

Visiting Researcher

Project: “An Assessment of the Effect of Partial Urbanization of a Watershed on Flow Hydrographs Downstream of the City”. City of Colorado Spring.

2000 – 2002, Universidad Católica de Chile, Department of Hydraulic and Environmental Engineering

Teaching Assistant

Courses: Fluid Mechanics I, Fluid Mechanics II, Urban Hydrology.

Winter 2001, Universidad Católica de Chile, Department of Hydraulic and Environmental Engineering

Engineer Assistant

Taking Stormwater Sample and Analysis and Control of Stormwater Quality.

Summer 2000, CODELCO Chile

Engineer Assistant in the Water Statistic department.

Modeling of Snowmelt Runoff and Water Management in the Río Blanco Basin.

Summer 1999, CODELCO Chile

Engineer Assistant in the Water Statistic Department.

IV. HONORS AND AWARDS

2005

- Borland Scholarship, Department of Civil Engineering, CSU.
- SOCHID Award, given to the best new Chilean graduated student in Hydraulic Engineering, period 2003-2005, Chile.

2004

- Departamento de Ingeniería Hidráulica y Ambiental Award, given to the best new professional engineer, Departamento de Ingeniería Hidráulica y Ambiental, Universidad Católica, Chile.

2001

- Grant “Arturo Cousiño Lyon” given to graduate students, Departamento de Ingeniería Hidráulica y Ambiental, Universidad Católica, Chile.

1996

- CODELCO-CHILE Award, A grant for the best freshman students, Chile.
- Matrícula de Honor. Grant for best freshman students. Universidad Católica, Chile.

1995

- Best Student award, 1995 Class. Instituto Chacabuco, Chile

V. PUBLICATIONS AND ARTICLES PRESENTED IN CONFERENCES

Park, D., **Gironás, J.**, Roesner, L. A., Farber M. A. and Jang, S. (2006). *Improvement of the EXTRAN block in StormWater Management Model (SWMM4.4h)*. World Environmental and Water Resources Congress 2006, May 21-25, Omaha, Nebraska.

Egderly, J. L., Roesner, L. A., Rohrer, C. A. and **Gironás, J. A.** (2006). *Quantifying Urban-induced Flow Regime Alteration and Evaluating Mitigation Alternatives Using Mathematical Models and Hydrologic Metrics*. World Environmental and Water Resources Congress 2006, May 21-25, Omaha, Nebraska.

Adriasola, J., **Gironás, J.** and Fernández, B. (2006). *Experimental analysis and modeling of a stormwater perlite filter*. World Environmental and Water Resources Congress 2006, May 21-25, Omaha, Nebraska.

Egderly, J. L., Roesner, L. A., Rohrer, C. A. and **Gironás, J. A.** (2006). *Quantifying Urban-induced Flow Regime Alteration and Evaluating Mitigation Alternatives Using Mathematical Models and Hydrologic Metrics*. Hydrology Days, Colorado State University, March 2006.

Adriasola, J., **Gironás, J.** and Fernández, B. (2006). *Experimental analysis and different modeling approaches for a stormwater perlite filter*. Hydrology Days, Colorado State University, March 2006.

Rivera, P., **Gironás, J.**, Montt, J. P. and Fernández, B. (2005). *An analytical model for hydrologic analysis in urban watersheds*. 10th International Conference on Urban Drainage, Copenhagen/Denmark, 21-26 August 2005.

Rivera, P., **Gironás, J.**, Montt, J. P. and Fernández, B. (2005). *An analytical approach to obtain the cumulative distribution functions for maximum discharges and total volumes in Urban Watersheds*. Hydrology Days, Colorado State University, March 2005.

Gironás, J. (2003). *SWMM-UC, una herramienta computacional para el análisis y diseño de sistemas secundarios de drenaje urbano*. Master of Science Thesis (Spanish). Pontificia Universidad Católica de Chile, Escuela de Ingeniería. Santiago, Chile.

Gironás, J. y Fernández, B. (2003). *SWMM-UC, una interfaz computacional para la modelación de sistemas de drenaje urbano*. XVI Congreso Chileno de Ingeniería Hidráulica. Santiago, Chile.

VI. SOCIETIES AND REGISTRATIONS

- Waterscience Research Community (www.watersci.org) Director and President.
- Sociedad Chilena de Ingeniería Hidráulica, SOCHID.
- American Society of Civil Engineering, ASCE.
- Environmental & Water Resources Institute, EWRI.
- American Geophysical Union, AGU.
- Grupo PUB ACFE (Andean Catchment Flow Estimation).
- IWGDM (International Working Group on Data and Models), a working group of the joint IWA/IAHR Specialist Group on Urban Drainage.

VII. OTHER INTERESTS

Music interpretation, cinema and sport (Tennis and Racquetball), reading and History. Interests at Catholic University included student organizing and help to 1st year student.

VIII. REFERENCES

Professor Larry Roesner (Larry.Roesner@ColoState.edu), Department of Civil Engineering Colorado State University.

Professor Jorge Ramirez (Jorge.Ramirez@ColoState.edu), Department of Civil Engineering Colorado State University.