

CURRICULUM VITAE

NAME: Noemí González Ramírez

PLACE AND DATE OF BIRTH: Oviedo, Spain. January 2, 1976.

NATIONALITY: Spanish.

PRESENT ADDRESS

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ACADEMIC DEGREES

PhD student, Civil Architectural and Environmental Engineering Department, University of Miami, August 2005 to present.

MSc (Hydraulics), IMF, 2001. Universidad Central de Venezuela, Caracas, Venezuela. Thesis title: *Three-dimensional mathematical model of a stratified, two-layers free surface flow*.
Master in Hydraulic Engineering with a Scholarship of the Palace of Academy (Academy of Science, Physics, Mathematics and Nature). Master Thesis awarded with the Mention of Honor.

Civil Engineer, Universidad Metropolitana (U.N.I.M.E.T), Caracas, Venezuela, 1993-1998.
Thesis title: *Analysis of the formation of alluvial central bars*. Thesis awarded with the Mention of Honor.

Bachelor of Sciences, El Angel School, Chuao, Caracas, Venezuela, 1988-1993. Elementary Education Studies

Mariangill School, Palencia, España, 1979.

Nuestra Señora del Carmen School, Caracas, Venezuela, 1980-1981.

El Angel School, Caracas, Venezuela, 1982-1988.

OTHER STUDIES

Sediment Transport Course in River, Estuaries and Coastal Zones, November 1998, Professor Van Rijn.

Course: Mountain River and Debris Flow, December 2000, Professor Gary Parker.

LANGUAGES

Spanish: Fluent

English: Fluent

TEACHING EXPERIENCE

Full time professor (Instructor) at the Fluid Mechanics Institute, Faculty of Engineering, Universidad Central de Venezuela, from June 2000 to present.

Fluids Mechanics I

Fluids Mechanics II

PUBLICATIONS IN JOURNALS AND CONFERENCES

[1] González, N., Nalesso M. & Falcón, M. “Alternate and Central Bars on River Channels”, EL RIO ORINOCO, Aprovechamiento Sustentable, book that gather all the works presented at the I Venezuelan Journeys of Research about the Orinoco River, 1998.

[2] González, N., & García R. 2000 “Layered Mathematical Model for Stratified Free Surface Flow”, JIFI 2000, UCV.

[3] González, N. & Falcón, M. “Geometry of Multiple Tows in River Bends”. Proceedings of the V Latin-American and Caribbean Congress on Fluids Mechanics (LACAFLUM 2001), University Simón Bolívar, May, 14-17, 2001, Caracas, Venezuela.

[4] Bello, M.E., López, J.L., González, N., Toyo, A., Alcalá, O. “Considerations of the Carmen de Uria Disaster”. International Seminar on the Debris Flow Disaster of 1999, Institute of Fluid Mechanics, Venezuelan Central University, Caracas, Venezuela. 2000.

[5] G. Paredes, N. González, R. García, y J. L. López, 2002, “Methodology for Debris Flow Hazard Evaluation in Urban Zones: Application to the Chacaito River”. “Desarrollos recientes en métodos numéricos para ingeniería y ciencias aplicadas”, book that gather all the works presented at the VI International Congress of Numerical Methods in Engineering and Applied Sciences (CIMENICS 2002), Universidad Simón Bolívar, Caracas, Venezuela, April, 2002.

[6] González, N. & García, R. “Layered Mathematical Model for Stratified Free Surface Flow”. “Desarrollos recientes en métodos numéricos para ingeniería y ciencias aplicadas”, book that gather all the works presented at the VI International Congress of Numerical Methods in Engineering and Applied Sciences (CIMENICS 2002), Universidad Simón Bolívar, Caracas, Venezuela, 10 al 13 de April, 2002.

[7] López, J.L. García, R. Bello, M.E., Paredes, G. González, N., Vivas, M.I., Noya, M.E. “Analysis and Mapping of Debris Flow in Alluvial Fans (Part I: Methodology Description)”. XX Latin-American Congress of Hydraulic, La Habana, October, 2002.

- [8] López, J.L. García, R. Bello, M.E., Paredes, G. González, N., Vivas, M.I., Noya, M.E. "Analysis and Mapping of Debris Flow in Alluvial Fans (Part II: Case of Study)". XX Latin-American Congress of Hydraulic, La Habana, October, 2002.
- [9] R.García, M.E. Bello, G. Paredes, N.González, y J.L.López, 2002, "Debris Flor Hazard Assessment in Alluvial Fans by FLO-2D Modeling", International Conference on Mountain Environment and Development, Abstract, pp. 49. October, 15-19, 2002, Chengdu, China.
- [10] Paredes G., García R., Bello M. E., González N., López J.L. "Methodology for the Elaboration of Debris Flow and Flooding Hazard Maps". Investigation Journeys of the Engineering Faculty (JIFI 2002), UCV, Caracas, November, 2002.
- [11] González N., Paredes G., García R., López J.L. "Debris Flow Hazard Evaluation in the Caracas Valley". Investigation Journeys of the Engineering Faculty (JIFI 2002), UCV, Caracas, November, 2002.
- [12] Paredes G., González N., García R., López J. L. "The Flooding Problems in Chacaito and Chapellin Rivers". Investigation Journeys of the Engineering Faculty (JIFI 2002), UCV, Caracas, November, 2002
- [13] Garcia, R., López, J.L., Noya, M.E., Bello, M.E., Bello, M.T., González, N., Paredes, G., Vivas, M.I., and O'Brien, J.S., 2003, "Hazard Mapping for Debris Flor Events in the Alluvial Fans of the Northern Venezuela", Proceedings of the Third International Conference on Debris-Flow Hazards Mitigation, Davos, Switzerland, September, 10-12, 2003.
- [14] López, José L., Maria E., Bello, N. González, A. Toyo, Zhang Sucheng., Peng Cui., y Wei Fangqiang. "Learned Lessons from Vargas Tragedy: Carmen de Uria case", Venezuelan Scientific Protocol, Vol. 54 Suplemento N° 1, pp. 49-62, 2003.
- [15] González N., García R., Blanco A. "Physical and Numerical Modeling of Overtopping Dam Break", II Simposio Internacional Gestión del agua y el Medio Ambiente, Barquisimeto, Venezuela, 09-11 September 2004.
- [16] González N., García R. y Blanco A. "Methodologies for the creation of dam break and debris flow hazard maps and their use in territorial planning". V Congreso Internacional de Energía, Ambiente e Innovación Tecnológica, Río de Janeiro, Brasil, Octubre, 2004.
- [17] González N. "Studies of the formation of dam breach and flooding propagation". Università degli studi di Trento, Trento, Italia, Septiembre, 2004.
- [18] González N., Marques F. y Falcon M. "Transporte de arena por chorro de agua". El mundo de la matemática. Libro de Fundación Polar – Últimas Noticias. 2004
- [19] Nalesso M., González N. "Debris Flow: Structural and Non-Structural Countermeasures for Risk Assessment". Forum: Learning From Vargas 1999-2005. UCV, Caracas, Venezuela, February, 2005

EXPERIENCE IN PROJECTS

Preliminary Study for the Control Structures on Vargas State. AUAEV. 2000

Project for the sediment control and pluvial channel in the Cerro Grande, Seca and Uria Rivers. Only Authority of Vargas State (AUAEV), 2000-2001.

Avila Project – Development of risk maps for north and south slope. Fluid Mechanics Institute – Environment and Natural Resources Ministry, 2001-2002

Evaluation of the solids evolution discharged in the Maracaibo Lake and its concentration in the depth and water body. Simon Bolivar University, 2001.

Study fluvial hydraulic of Bruzual-San Fernando section of the Apure River. PROA, 2001-2002.

Scientific Interchange with the Département de génie civil, École Polytechnique de Montreal, Montreal – Canada. 2003

Caracas Project – Flooding Impact and prevention in the Caracas Valley. 2003-2004.

Principal Investigator for Dam Project Bi-dimensional analysis of flooding due to dambreak. Financial support FONACIT/BID N° S1-2002000486. 2003-2005.

Co Principal Investigator for COLM Project – Breach formation on the marginal dykes in the oriental coast of Maracaibo Lake and the flooding in Bachaquero, Lagunillas and Tía Juana cities. INTEVEP-PDVSA. 2003-2004.

United States Department of Agriculture (USDA), Agricultural Research Service (ARS). Internship in modeling using Water Erosion Prediction Model (WEPP) and Everglades Agro-Hydrology Computer Model (EAHM). Miami, FL Summer 2006

COMPUTER CODES DEVELOPED

Development and application of the following computer codes:

- [1] Flood routing in alternate and central bars.
- [2] Layered Mathematical Model for Stratified Free Surface Flow.
- [3] Geometry of multiple tows in river bends.

CONFERENCES ATTENDED

[1] "II Civil Engineering forum", School of Civil Engineering, UCAB, Caracas, Venezuela, April 1997.

[2] "III Civil Engineering forum", School of Civil Engineering, UCAB, Caracas, Venezuela, March 1998.

[3] “Venezuelan Journeys of Research about Orinoco River”, UCV, Caracas, Venezuela, November 16-20, 1998.

[4] “International Seminar on the Debris Flow Disaster of 1999 in Venezuela”, Caracas, Venezuela, November 27 to December 1, 2000.

[5] V Latin American and Caribbean Congress on Fluid Mechanics, USB, Caracas, Venezuela, 14-17 de mayo, 2001

[6] Investigation Journeys of the Engineering Faculty (JIFI 2002), UCV, Caracas, November, 2002

[7] I Seminar about Disasters, Universidad Central de Venezuela, Caracas, Venezuela, 3 April, 2004

[8] XXIX Convengo di Idraulica e Costruzioni Idrauliche, Trento, Italia, 7-10 de September, 2004

[9] Investigation Journeys of the Engineering Faculty (JIFI 2004), UCV, Caracas, November, 2004

UNDERGRADUATE STUDENT PROJECTS TUTORED

“Numerical and physical modeling of dam breach process”. Br. Elizabeth Graterol, Br. David Herrera. 2004.

“Study of the El Guapo Dam Break Process”. Br. Alexandra Sánchez, Br. María Alejandra Francis. 2005. (in course)

MASTERS THESIS TUTORED (M. Sc.)

“Numerical modelling of the breaking process in a earth dam”. Eng. Daniel Mendez. 2005. (in course)

PROFESSIONAL SOCIETIES

Member of the Professors Association of the Central University of Venezuela. No. 17537

Active Member of the Association of Venezuelan Engineers (C.I.V.) No. 115012

September, 2006