

## Francisco Maldonado Fortunet, Ph.D.

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### a. Professional Preparation

Ph.D., Civil Engineering, Georgia Institute of Technology, Atlanta, GA, August 2002.  
M.S., Civil Engineering, Georgia Institute of Technology, Atlanta, GA, September 1994.  
B.S., Civil Engineering, University of Puerto Rico, Mayagüez Campus, Mayagüez, PR, May 1993.

### b. Appointments

- *Associate Professor*, University of Puerto Rico, Mayagüez Campus, August 2005 to present.
- *Executive Vice-President*, Nature's Power Tech Corp. a consulting firm in sustainable design and construction, May 2006 to August 2010.
- *Construction Management Consultant*, Institutional Research and Planning Office, University of PR, Mayagüez, April 2002 to December 2009.
- *Seminar Lecturer in Construction Engineering*, Center of Technology Transfer in Transportation, August 1999 to present.
- *Seminar Lecturer in Construction Engineering and Management*, Instituto de Evaluadores de Puerto Rico, February 2001 and January 2002.
- *Professional Engineer Assistant*, Puerto Rico Infrastructure Financing Authority, October to December 2000.
- *Graduate Research Assistant and Graduate Teaching Assistant*, Georgia Institute of Technology, Atlanta, GA, September 1993 to June 1999.
- *Project Manager*, Banco Popular of Puerto Rico, San Juan, PR, January 1993 to July 1993.
- *Site Superintendent and Inspector*, Star Kist Caribe, Mayagüez, PR, December 1991 and Summer 1992.

### c. Publications

Maldonado-Fortunet, F., Seijo-Maldonado, L.(2009). "The University Institute for Community Development: 5 Years of Community Action." *Symposium of the International Consortium in Community Development*, July 2009, Mexico.

O'Neil, E., Maldonado-Fortunet, F., Seijo-Maldonado, L.(2007). "Mentoring Interdisciplinary Service Learning Projects." *Proceedings of the 37<sup>th</sup> ASEE/IEEE, Frontiers in Education Conference*, July 2007, WI.

Maldonado-Fortunet, F., Seijo-Maldonado, L., and Colucci, B. (2006). "The Application of Interdisciplinary Engineering Education in Community Service." *The International Conference in Engineering Education 2006*, July 2006, San Juan, Puerto Rico.

Maldonado-Fortunet, F., and Seijo-Maldonado, L.(2006). "Service Learning for Community Engagement: An Interdisciplinary Approach for Engineering Education." *Fourth LACCEI International Latin American and Caribbean Conference for Engineering and Technology (LACCET'2006)* "Breaking Frontiers and Barriers in Engineering", 21-23 June 2006, Mayaguez, Puerto Rico.

Maldonado-Fortunet, F., and Gonzalez-Quevedo, A. (2005). "Research Methodology to Define Sustainability Criteria for Civil Infrastructure Systems." *Third LACCEI International Latin American and Caribbean Conference for Engineering and Technology (LACCET'2005)* "Advances in Engineering and Technology: A Global Perspective", 8-10 June 2005, Cartagena de Indias, Colombia.

## Francisco Maldonado Fortunet, Ph.D.

Maldonado-Fortunet, F., and Gonzalez-Quevedo, A., (2004). “Criterios de Desarrollo Sustentable para Evaluar Proyectos de Transporte.” *Proceedings of the VI Congress in Transportation Engineering*, Zaragoza, España.

Maldonado-Fortunet, F., Gonzalez-Quevedo, A., and Vanegas, J. A. (2002). “Limitations of Environmental Impact Assessment for a Sustainable Highway Development.” *Proceedings of the XII Pan-American Congress in Transportation Engineering*, Quito, Ecuador.

Vanegas, J. A., Hastak, M., Pearce, A. R., Maldonado, F. (1998). *A Framework and Practices for Cost-effective Engineering in Capital Projects in the A/E/C Industry*. Georgia Institute of Technology. A report to the Construction Industry Institute (CII) at Austin, Texas.

Maldonado-Fortunet, F., Hastak, M., and Vanegas, J. A. (1995). “Conceptual Framework for Sustainable Quality Management.” *Proceedings of the 1995 Annual Conference of the Canadian Society for Civil Engineering*, CSCE, Montreal, Quebec, Canada, vol. 3, pp. 389-398.

### **d. Synergistic Activities**

- Assistant of the Dean of Engineering in Community Affairs, University of Puerto Rico, Mayagüez Campus, 2006 to 2009.
- Representative of the UPRM in the Engineering Projects in Community Service (EPICS) program at Purdue University.
- Member of the Advisory Committee of the Community Resources Development Program for the UPRM Agricultural Extension Program.

### **e. Awards and Honors:**

- Merck Health Innovation Award in Education for \$10,000, September 2009.
- PR-LSAMP Mentorship Program Recognition, April and November 2009.

### **f. Collaborators and Other Affiliations**

Internal Collaborators to University of Puerto Rico

- Dr. Jose L. Perdomo, Dr. Omar Molina, Dr. Antonio González, Department of Civil Engineering and Surveying
- Dr. Genock Portela - Department of General Engineering
- Prof. Luisa Seijo-Maldonado – Director, University Institute for Community Development

External Collaborators

- Profesor Antonio Zaragoza - University of Puerto Rico- Ponce
- Center for Technology Transfer in Transportation, Mayaguez, PR
- *Colegio de Ingenieros y Agrimensores de PR*

### **g. Graduate Advisors:**

Dr. Jorge Vanegas for M.S. and Ph.D.

### **h. Students Advised:**

Rossmarie Rodriguez, Jesus I. Roig, Omar J. Lazo, Erika M. Jaramillo, Josie D. Bianchi, Jorge A. Davila, Carlos A. Cruz, Shila M. Jurado, Annette Martinez.