

Francisco José Cubas Suazo

Civil Engineering and Construction Management Department
Georgia Southern University
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EDUCATION

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|---|---|
| Virginia Polytechnic and State University (Virginia Tech)
Doctorate of Philosophy, Civil Engineering
<i>Dissertation: Investigation into the Effects of External Electron Acceptors on Nutrient Cycling at the Sediment-Water Interface of the Occoquan Reservoir. Advisor: Thomas J. Grizzard</i> | Blacksburg, Virginia
2007 – 2012 |
| Virginia Polytechnic and State University (Virginia Tech)
Master of Science in Environmental Engineering
<i>Thesis: Effect of Reactor Feeding Pattern on Performance of an Activated Sludge SBR. Advisor: John T. Novak</i> | Blacksburg, Virginia
2004 – 2006 |
| Universidad Nacional Autónoma de Honduras (UNAH)
Bachelor of Science Degree in Civil Engineering | Tegucigalpa, Honduras
1993 – 1999 |

Appointments:

- Assistant Professor, Civil and Environmental Engineering, Georgia Southern University 2014 – Present
- Post-doctoral Associate, Occoquan Watershed Monitoring Laboratory 2012 – 2014
Civil and Environmental Engineering Department, Virginia Tech
- Graduate Research Assistant 2007 – 2011
Civil and Environmental Engineering Department, Virginia Tech
- Graduate Teaching Assistant 2005 – 2006
Civil and Environmental Engineering Department, Virginia Tech
- Graduate Research Assistant 2004 – 2006
Civil and Environmental Engineering Department, Virginia Tech
- Engineer in the Operative Improvements Division 2001 – 2004
National Autonomous Water and Sewage Service (SANAA)
Tegucigalpa, Honduras
- Manager of the Water Distribution Division 2000 – 2001
Department of Operation, SANAA – Tegucigalpa, Honduras
- Project Engineer 1999 – 2000
Department of Operation, SANAA – Tegucigalpa, Honduras

AWARDS

- **Award for CECM Faculty Scholar of the Year** – CECM Department, Georgia Southern University

- **Organization of American States**, OAS – LASPAU full scholarship to pursue a Master’s Degree 2004 – 2006

PUBLICATIONS

- Beutel, M.W., R. Duvill, **F.J. Cubas**, T.J. Grizzard. Effects of Nitrate Addition on Water Column Methylmercury in Occoquan Reservoir, Virginia, USA. *Water Research* (2017), Vol. 110, 1. *ISSN: 0043-1354*
- Beutel, M.W., R. Duvill, **F.J. Cubas**, T.J. Grizzard, F.M. Wilhelm, D. Austin, D.A. Matthews, A.J. Horne, S.Y. Gebremariam. A review of managed nitrate addition to enhance surface water quality. *Critical Reviews in Environmental Science and Technology* (2016), Vol. 46, 7. *ISSN: 1064-3389*
- Fitzpatrick, J. **Cubas, F.**, Phillips, H., Tate, M., “The Nutrient Roadmap – Chapter 6”, Book Chapter, *Water Environment Federation*. 2015.
- **Cubas, Francisco J.**, J.T. Novak, A.N. Godrej, T.J. Grizzard, Effects of Nitrate Input from a Water Reclamation Facility on the Occoquan Reservoir. *Water Environment Research* (2014), Vol. 86, 2. *ISSN: 1061-4303*
- **Cubas, Francisco J.**, J.T. Novak, M.J. Higgins, Effect of Feeding Patterns on the Performance of Activated Sludge Systems. *Water Environment Research* (2011), Vol.83, 6. *ISSN: 1061-4303*

Conference Proceedings

- Rogers, Peter, Thompson, Brandon, and **Cubas, Francisco**. (2016). “Developing a Water Use Profile for a Public Water System in the Southeast.” *American Water Works Association Annual Conference, Chicago, Illinois*.

Pending Publications

- **Cubas, Francisco J.**, R. David Holbrook, J.T. Novak, A.N. Godrej, T.J. Grizzard, Effective Depth Controls the Nitrate Removal Rates in a Water Supply Reservoir with a High Nitrate Load. *Water Research in review*.
- Riggs, Bryan N., **Cubas, Francisco J.**, Hladik, Christine, Dryden, John, and Hendren, Tracy L. “Effects of Density and Bathymetry on Salinity Transport: Savannah River.” *Marine and Freshwater Research*. In review

FUNDING ACQUIRED

- Yungfen Chen (PI), **Francisco Cubas (co-PI)**, Celine Manoosingh (co-PI), and Roger Purcell (co-PI), “Public Response to Different Planting Techniques for Annual Color and Enhancement” Georgia Department of Transportation, \$100,000, November 2017.
- **Francisco Cubas (PI)** and Marcel Illie (co-PI), “Biodiesel Wastewater Treatment as Part of the Life Cycle Assessment of Fatty Acids from Food and Energy into the Water and Environment”, Allen E. Paulson College of Engineering & Information Technology Faculty Research Seed Grant – GSU, \$5,000. October 2017
- Francisco Cubas (PI), “An Assessment of the Transport and Fate of Nitrate and its Effect on Ammonia and other Dissolved Constituents in the Occoquan Reservoir”, Upper Occoquan Sewage Authority (UOSA), \$60,000. March 2016.

- **Francisco Cubas (PI)**, Peter Rogers (co-PI), George Fu (co-PI), “Development of a Nine-Element Watershed Management Plan for the Black Creek, Sub-Watershed of the Ogeechee River Basin”, Georgia Department of Natural Resources – Environment Protection Division, \$58,333. October 2016
- **Francisco Cubas (PI)** and Celine Manoosingh (co-PI), “Waste Management of Highway Right of Way Areas in the Southeast Georgia”, Georgia Department of Transportation, \$170,000. May 2016
- **Francisco Cubas (PI)** and Thomas J. Grizzard (co-PI), “A Continuing Assessment of the Transport and Fate of Nitrate and its Effects on Other Dissolved Constituents in the Occoquan Reservoir”, Upper Occoquan Sewage Authority (UOSA), \$60,000. March 2016
- Edward Water*, Dustin McLendon*, **Francisco Cubas**, “Research to Determine the Causes of Sediment Ammonia Release into our Surface water Systems and Wildlife Habitats”. College of Engineering and Information Technology – GSU, \$3,000. October 2015
- Thomas J. Grizzard (PI – VT) and **Francisco Cubas (co-PI)**, “Assessments of Transport and Fate of Nitrate and other Dissolved Constituents in the Occoquan Reservoir – a Continuing Study”, Upper Occoquan Sewage Authority (UOSA), \$60,000. February 2015
- **Francisco Cubas (PI)** and Celine Manoosingh (co-PI), “Nutrient Inventory & Life Cycle Assessment of the Ogeechee & Savannah Rivers”, Allen E. Paulson College of Engineering & Information Technology Faculty Research Seed Grant – GSU, \$10,000. November 2014
- **Francisco Cubas (PI)** and Thomas J. Grizzard (co-PI – VT), “Nitrogen Cycling in the Occoquan Reservoir and their effects on ammonia, iron and manganese release from sediments”. Upper Occoquan Sewage Authority (UOSA), \$60,000. September 2013

*Students under the supervision of Dr. Cubas

TEACHING EXPERIENCE

Civil Engineering and Construction Management Department
Georgia Southern University – Assistant Professor
 Courses Taught:

Statesboro, GA
 Fall 2014 – Present

- CENG 3131 – Introduction to Environmental Engineering
- CENG 4890 & TMAE 5890 – Watershed Management
- CENG 4518 – Introduction to Senior Project
- TMAE 5890 – Principles of Environmental Engineering

RELEVANT SERVICE AND COMMUNITY OUTREACH

- Graduate Program Coordinator – CECM Department, Georgia Southern University
- Member of the Society of Hispanic Professional Engineers, Faculty Development Institute
- Co-advisor of the ASCE student Chapter at Georgia Southern University
- Member of the environmental and water subcommittee (ongoing). Meet regularly to discuss on how to improve the CE undergraduate and graduate curriculum.
- Member of the CE departmental awards committee. Evaluate students’ applications to decide which students will receive honors and awards (Ongoing).

- Head of the Environmental and Water Resources laboratory in the CECM Engineering Building. This is a teaching and research facility.
- Member of the faculty team that will be introducing, implementing, and evaluating the QEP program in the CECM Department. Regularly attend the QEP meetings and workshops.
- Member of the Association of Latin American Students (ALAS). Voluntarily advises students from this organization when necessary.

AFFILIATIONS

- Member of the Society of Hispanic Professional Engineers, since 2017
- American Water Works Association, since 2013.
- Association of Environmental Engineering and Science Professors, since 2013.
- International Water Association, since 2011.
- Water Environment Federation, since 2006.
- College of Civil Engineers of Honduras since 2000, Licensed Engineer in Honduras.