

## Contact Information

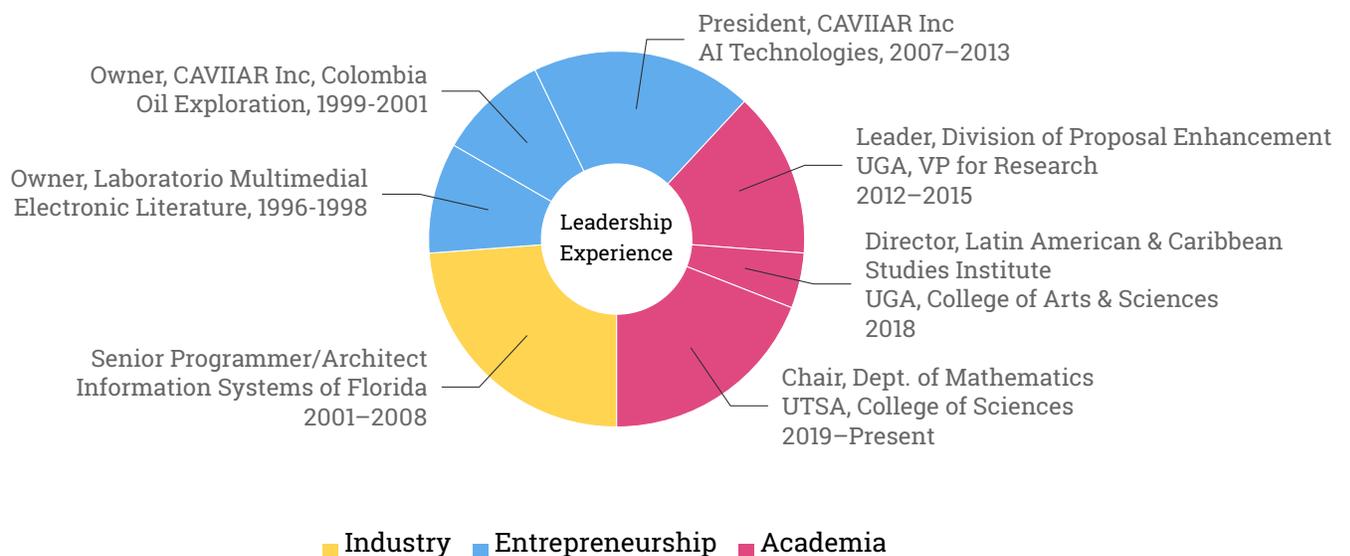
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Detailed resume, CV, and more at <https://biomathematicus.me/>

## Summary of Leadership Experience

I have a proven and successful track record of leadership, entrepreneurship, sponsored research, and instruction across three continents in multiple disciplines spanning the sciences (\$3M in sponsored research from NSF, NIH and DARPA) and the humanities (\$250K in today's dollars from multiple agencies in Spain and Colombia).



My career showcases a deep commitment to transformative leadership and entrepreneurial success across academia and industry. My efforts have consistently elevated organizational performance, with a commitment to fostering a dynamic and empowering workplace.

## Leadership and Administrative Experience in Academia

**2019-2025. Chair of the Department of Mathematics at UTSA**, managing a \$5.6M budget, 25 T/TT faculty, 45 instructional faculty, 30 undergraduate and graduate teaching assistants, 3 postdoctoral associates, 4 staff, 5 student workers, and serving 12,000 seats per year.

**Key contributions:** I was hired through a national search to rectify a challenging academic unit. Before my arrival, the average drop, fail & withdrawal (DFW) rate was over 34% for service courses that were offered to 12,000 seats per year. I conducted an in-depth data analysis of 5.5 million credit-hours and 86,000 students across seven years for the entire university. I identified points of optimal control to improve the outcomes. Within the first year, DFW dropped to 25% in average in mathematics; the rotation of personnel has stopped; salaries were corrected to reach national averages; research throughput has increased five-fold. The model was so successful that I have been invited to participate in multiple national venues to disseminate the strategy. See <https://tinyurl.com/JBG-A-Word>

**2017-2018. Interim Director of the [Latin American and Caribbean Studies Institute \(LACSI\)](#) at the [University of Georgia](#)** between December 2017 and June 2018.

**Key contributions:** Under my leadership, LACSI submitted and was awarded a \$2.2M Title VI FLAS grant (Foreign Language Area Studies) from the Department of Education. FLAS is a highly competitive U.S. Department of Education grant that provides graduate and undergraduate fellowships for students to pursue intensive training in modern languages and related areas of international studies.

**2012-2015. [Office of Proposal Enhancement at UGA](#).** I reported directly to the VP for research. It is worth mentioning how I landed in this position: I was hired in 2012 at UGA as an opportunity-hire assistant professor after I was able to assemble and manage in two weeks, while still a postdoc at OSU, the submission of a 75-page technical proposal and 600-page business proposal for a \$20M U19 NIH contract with 30 co-investigators from UGA, Emory, CDC, and GA Tech. We won that award, and I received job offers from Emory and UGA. It was through my years in industry that I acquired the skills necessary to accomplish this feat.

**Key contributions:** I trained dozens of faculty and staff to respond to solicitations according to a methodology I learned and refined during my years in industry. This office is credited for the advances in the national research ranking of UGA. See the article "[UGA advances in national research ranking](#)", December 15, 2017, UGA Today.

## Executive and Leadership Experience in Industry

2012-2022 I have created 4 businesses in the US: Accolotech LLC (FL, 2007-2010), [CAVIAR Inc \(link to D&B\)](#) (FL, 2007-2013), GUVVO Group (GA, 2015-2017), and [GUVVO Solutions](#) (TX, 2021-present). The first two, Accolotech and CAVIAR were created while I was a doctoral student. I was able to finish my doctoral degree thanks to a subaward of a research grant by the Spanish Ministry of Industry to CAVIAR Inc, and a research grant with the Division of Aquaculture of the Florida Department of Agriculture.

2001-2008 As a Senior Programmer/Architect at [Information Systems of Florida](#), I developed and designed enterprise-grade information systems, and led multinational teams of programmers to satisfy information technology contracts with the State of Florida.

1999-2001 Owner of CAVIAR (Centro Avanzado de Investigación en Inteligencia Artificial), Colombia, an engineering business that developed software and hardware for oil exploration.

1996-1998 Owner of Laboratorio Multimedial, a media business that attracted multiple contracts from Colcultura (now Ministerio Colombiano de Cultura) and the Instituto Distrital de Cultura y Turismo de Bogotá. The technological product developed by this business is the AI engine known as Literatronica, which was the foundation for [NSF award #1645325](#) "ALICE (Adaptive Learning for Interdisciplinary Learning Environments)", [NSF award #2518973](#) "Supporting Student Learning and Success in Early Undergraduate Mathematics Courses via AI-Enhanced Education", and [NIH award 1R25GM151182](#), "Training Biomedical Research Teams for Rigor and Reproducibility in Data Science," of which I am principal investigator.

## Executive and Leadership Training

2022-2023 Academia de Liderazgo. Executive training by the Hispanic Association of Colleges and Universities (HACU).

2020-2021 Leadership Institute, UTSA.

2018 Leadership Institute, University of Georgia.

2011, 2014 Advanced Leadership Institute. Leadership training by the Society for the Advance of Chicanos and Native Americans in Science (SACNAS).