

BRIEF CURRICULUM VITAE

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1. **Present positions:** Full Professor of Departamento de Ingeniería Matemática and Senior Researcher of the Center for Research in Mathematical Engineering (in spanish: Centro de Investigación en Ingeniería Matemática, CI²MA), Universidad de Concepción, Concepción, Chile; External associate researcher of the Center for Mathematical Modelling (in spanish: Centro de Modelamiento Matemático, CMM), Universidad de Chile, Santiago, Chile.
2. **Professional title and degrees:** Bachellor in Mathematics, Universidad de Concepción (1980); Mathematical Engineer, Universidad de Concepción (1983); Master in Sciences with major in Mathematics, Universidad de Concepción (1985); Ph.D. in Mathematical Sciences, University of Delaware, USA (1989).
3. **Research Background.**
 - AUTHOR OF ABOUT 231 PAPERS (227 already published or accepted in international journals; 4 submitted).
 - 6994 CITATIONS in Google Scholar; 5485 CITATIONS in ResearchGate; 4937 CITATIONS in Semantic Scholar; 3782 CITATIONS in Scopus; 3704 CITATIONS in MathSciNet.
 - HIS MAIN SCIENTIFIC CONTRIBUTIONS have to do with the development and analysis of new and more efficient Mixed Finite Element Methods for diverse linear and nonlinear problems in continuum mechanics and electromagnetism [supported by about 200 papers on this subject during the last 25 years]. The above includes the derivation of new theoretical results that have shown applicability beyond his own research work.
 - AUTHOR OF 6 BOOKS, and particularly, the most recent ones in Reverté and Springer:
 - GATICA, G.N.: *Introducción al Análisis Funcional. Teoría y Aplicaciones*. Segunda edición. Editorial Reverté, Barcelona Bogotá Buenos Aires Caracas México, 2024.
 - GATICA, G.N.: *A Simple Introduction to the Mixed Finite Element Method. Theory and Applications*. SpringerBriefs in Mathematics, Springer, Cham Heidelberg New York Dordrecht London, 2014.
 - GATICA, G.N.: *Introducción al Análisis Funcional. Teoría y Aplicaciones*. Primera edición. Editorial Reverté, Barcelona Bogotá Buenos Aires Caracas México, 2014.
 - PERMANENT PARTICIPATION IN RESEARCH PROJECTS, which include diverse initiatives supported by the chilean government such as: Fondecyt, Mecesup, Fondap, Fondef, Basal and Anillo.
 - ADVISOR OF 46 UNDERGRADUATE AND GRADUATE THESES (25 of Mathematical Civil Engineering; 3 of Master; 18 of Ph.D.).
 - ABOUT 136 PARTICIPATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES, 60 of them as INVITED SPEAKER.
 - DIVERSE EDITORIAL DUTIES, highlighting among them the following:
 - ASSOCIATE EDITOR of SIAM JOURNAL ON NUMERICAL ANALYSIS (SINUM), the most prestigious international journal in Numerical Analysis. [January 2013 - December 2021].

4. **Academic - Scientific Management.** Gabriel N. Gatica is recognized at both the national and international levels, as one of the main promoter, besides being permanent protagonist, of the development of Applied Mathematics, specially of *Numerical Analysis of Partial Differential Equations*, during the last 25 years in Chile, and particularly in Universidad de Concepción. This is endorsed, in particular, by its performance as:

- FOUNDER AND FIRST DIRECTOR (1993 - 2005) of Departamento de Ingeniería Matemática of Universidad de Concepción.
- FOUNDER AND FIRST DIRECTOR (1994 - 1996) of the Ph.D. Program in Applied Sciences with major in Mathematical Engineering of Universidad de Concepción.
- NATIONAL RESPONSIBLE (1996 - 1999) of the SUB-PROGRAMME OF NUMERICAL ANALYSIS of the FONDAP Programme in Applied Mathematics supported by CONICYT.
- FOUNDER AND FIRST DIRECTOR (2009 - 2020) of the Centro de Investigación en Ingeniería Matemática, CI²MA, of Universidad de Concepción.
- CREATOR AND PERMANENT ORGANIZER of diverse national and international scientific events [series of conferences WONAPDE; series of conferences NUMERICAL “CITY”, and several others].

August 7, 2025.