

Eduardo Pagnussat Titello



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Goal:

Currently, I work as a structural designer and I'm a doctoral student researching numerical modeling of structures. In addition, I'm looking for new challenges in technology, where I believe my true vocation is, and where I can offer much more through my exact science background, my ability to learn by myself, and my creative personality.

Education:

- **UFRGS:** Doctoral student in Civil Engineering, 2020-present;
- **UFRGS:** Master's degree in Civil Engineering, 2018-2020;
- **FURG:** Bachelor's degree in Civil Engineering, 2013-2017;
- **IBM badges:** Python for Data Science; Data Science Foundations; Getting started with Microservices with Istio and IBM Cloud Kubernetes Service; Explore Emerging Tech;

Skills:

- Advanced English;
- Basic Spanish;
- Finite element modeling;
- Reliability analysis;
- Probabilistic and Statistical concepts;
- Git and GitHub;
- Consistent knowledge of Python, MATLAB, and FORTRAN.
- Basic knowledge of VBA, PHP, MySQL, JavaScript, Data Science, and Linux.

Profile & soft skills:

- **Creative and innovative thinking:** throughout my academic and professional experience I always looked for creative ways to solve problems and searched for alternatives that could overcome more conventional solutions;
- **Self-taught:** due to my curious nature I always wanted to understand how everything around me works. So, since I was very young, I was able to learn several skills by myself, such as basic electronics, computer programming, computing fundamentals, and concepts of probability and statistics;
- **Proactivity and leadership:** in tricky situations, I usually take the first step to solve problems, by taking the lead and the responsibility;
- **Collaborative work:** I find it easy to work in groups of people who have different points of view and always try to find a balance to achieve a common goal.

Experience:

OCTA Projetos Compatibilizados

- **Structural engineer (2021 - at moment):**
Work as a structural engineer in the development of reinforced concrete and steel structures projects for buildings, always aiming to improve the quality of our services using new technologies, such as the BIM methodology.

Federal University of Rio Grande do Sul

- **Doctoral student (2020 - at moment):**
The thesis focuses on the probabilistic evaluation and calibration of design standards for slender reinforced concrete columns. Through a computational model implemented in Python by the author, the research project aims to evaluate and calibrate the normative design criteria for slender concrete columns, through FORM, presenting optimized design coefficients that standardize and guarantee structural safety in projects. *Advisors: Prof. Dr. Américo Campos Filho and Prof. Dr. Mauro de Vasconcellos Real (Contacts: amero@ufrgs.br, mauroreal@furg.br).*
- **MSc student (2018-2020):**
The master thesis focused on the implementation of a numerical model using Fortran to represent the structural response of steel fiber reinforced concrete. Concurrently, was developed a Python tool for probabilistic evaluation of structural reliability, with the potential of integration with the commercial software Ansys (available at github.com/dutitello/parAnsys/). *Advisors: Prof. Dr. Américo Campos Filho and Prof. Dr. Mauro de Vasconcellos Real.*

Federal University of Rio Grande

- **Scholarship holder of scientific research (2016-2017):**
Research development, under the guidance of Prof. Mauro de Vasconcellos Real, in the field of reliability of reinforced concrete structures, dimensioned according to the Brazilian standard, through the implementation and application of probabilistic methods and numerical models.
- **Scholarship holder of teaching project (2015-2016):**
Development of teaching materials, such as video lessons and computational models, to help students in the subjects of Architectural drawing, and Architecture and Urbanism, under the guidance of Prof. Alessandro Morello.

RIMAPI Engenharia, Construção e Incorporação LTDA

- **Intern (2017):**
Worked as intern performing assistance in the production and monitoring the execution of architectural, electrical, plumbing, and structural projects.
- **Draftsman (2010-2013):**
Worked as draftsman developing 3D models, photorealistic rendering, and architectural, electrical, and plumbing projects.