

Ingrid Pires Macedo Oliveira dos Santos

ingridpires@icloud.com
(+55) 97600-1249

LinkedIn : <https://www.linkedin.com/in/ingrid-pires-dos-santos/>

ResearchGate : https://www.researchgate.net/profile/Ingrid_Pires_Macedo

- EDUCATION**
- Pontifical Catholic University of Rio de Janeiro (PUC)**, Rio de Janeiro
Ph.D. in Mechanical Engineering.
March 2019 - Current.
- Pontifical Catholic University of Rio de Janeiro (PUC)**, Rio de Janeiro
Masters in Mechanical Engineering.
March 2017 - April 2019. GPA: 8.1/10.0
- Federal University of Rio de Janeiro (UFRJ)**, Macaé
Bachelor of Science in Mechanical Engineering.
September 2016. GPA: 8.3/10.0
- Rose-Hulman Institute of Technology**, erre Haute, IN USA
Brazilian Scientific Mobility Program exchange student in Mechanical Engineering.
June 2014 - September 2015. GPA: 3.6/4.0
- Federal Institute of Rio de Janeiro (IFRJ)**, Paracambi
4-year High School Technical Course on Mechanics
December 2010.
- RESEARCH EXPERIENCE**
- Pontifical Catholic University of Rio de Janeiro** **Jun 17 - Mar 17**
Torsional Friction-Induced Vibrations in Slender Rotating Structures
Masters degree research project, supervised by Dr. Hans I. Weber. Developed in-depth knowledge of nonlinear dynamics, friction-induced vibrations, and multi body dynamics.
- Federal University of Rio de Janeiro** **Jan 16 - Sep 16**
Structural project and analysis of a parabolic trough collector support
Undergraduate research project under the supervision of Prof. Mauricio A. N. de Oliveira. Gained experience of renewable energy research.
- TEACHING EXPERIENCE**
- Pontifical Catholic University of Rio de Janeiro** **Mar 18 - Jul 18**
Mechanical Engineering Departament
Acted as a mentor for senior undergraduate students.
- OTHER EXPERIENCE**
- Systec Conveyors** Indianapolis, IN - EUA
June 2015 - August 2015 Mechanical Engineer Intern
Mechanical Engineering Departament
- Product design modifications.
 - Development of detailed drawings and basic assemblies for products and equipment.
 - 3D models design of products and equipment.
- Petrobras Distribuidora S.A.** Rio de Janeiro, RJ
February 2010 - March 2011 Mechanical Technician Intern
Operating Facilities

- Assisted engineers in regularization of operating facilities with the Brazilian National Petroleum Agency.
- Participation in projects of automation of operational facilities.
- Work with investment team responsible for the expansion and improvement of the operating units.

PUBLICATIONS Ingrid Pires, Bruno C. Cayres, and Hans I. Weber. "*Friction-Induced Vibrations in a Drill-String Experimental Set-Up.*" XVIII DINAME. Búzios, Brazil, 2019.

Ingrid Pires, Bruno C. Cayres, Djenane C. Pamplona, and Hans I. Weber. "*Torsional Friction-Induced Vibrations in Slender Rotating Structures.*" XV IFToMM World Congress. Krakow, Poland, 2019 (accepted).

Ingrid Pires, Bruno C. Cayres, and Hans I. Weber. "*Nonlinear Dynamic Analysis of Torsional Friction-Induced Vibrations on Slender Structures.*" 25th ABCM International Congress of Mechanical Engineering. Uberlândia, Brazil, 2019 (accepted).

CONFERENCES ATTENDED

- XVIII DINAME (International Symposium on Dynamic Problems of Mechanics), Búzios, Brazil, 2019.
- X IFToMM (International Federation for the Promotion of Mechanism and Machine Science), Rio de Janeiro, 2018.
- XI ENGEP (Oil Exploration Engineering Meeting), Maca, 2013.
- VIII SPETRO (Oil week of UFRJ), Rio de Janeiro, 2013.