

Curriculum Vitae

Jakson Manfredini Vassoler, Ph.D.

Office

Phone

E-mail

URL <http://professor.ufrgs.br/jmvassoler/>

ORCID 0000-0002-8548-893

Scopus ID 24339426400

Education

2009-2011 Postdoctoral Researcher, GRANTE/LEBm, Federal University of Santa Catarina (UFSC), Brazil

2006-2009 Ph.D. Mechanical Engineering, Politecnico di Torino, Italy

2005-2006 M.Sc. Mechanical Engineering, Federal University of Santa Catarina (UFSC), Brazil

2003-2005 B.Sc. Mechanical Engineering, Politecnico di Torino, Italy

1999-2005 B.Sc. Mechanical Engineering, Federal University of Rio Grande do Sul, Brazil

Professional Experience

2019 – current Associate Professor at the Department of Mechanical Engineering (UFRGS)

2011 – 2019 Adjunct Professor at the Department of Mechanical Engineering (UFRGS)

2016 – 2018 Coordinator of the Postgraduate Program in Mechanical Engineering, (UFRGS)

Awards and Honors

2018	Marco Pinotti Award - Best ENEBI2018 Paper Award
2006	Award ABCM-EMBRAER 2016. Awarded honorable mention for M.Sc. thesis from Brazilian Association of engineering and Mechanical Sciences in best Master thesis Award
2002	Best CRICTE2002 Paper Award - Mechanical Engineering Session

Publications

2 book chapters; 35+ Published Articles; 12 Journal Published Articles; 15+ Peer-Reviewed Articles; 55+ Citations (Scopus).

Articles in Scientific Journals (Selection)

1 - BRESOLIN, FL; VASSOLER, JM. A numerical study of the constitutive characterization of thermoplastic materials submitted to finite strain. **INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES**, v. 206, 2020.

2 - CARNIEL, TA; FORMENTON, ABK; KLAHR, B; VASSOLERJM; ROESLER, CRM; FANCELLO, EA. *An experimental and numerical study on the transverse deformations in tensile test of tendons*. **JOURNAL OF BIOMECHANICS**, v. 87, 2019.

3 - VASSOLER, JM; STAINIER, L; FANCELLO, EA. *A variational framework for fiber-reinforced viscoelastic soft tissues including damage*. **INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING**, v. 108, 2016.

4 - ROESLER, CRM; SALMORIA, GV; MORÉ, ADO; VASSOLER, JM; FANCELLO, EA. *Torsion Test Method for Mechanical Characterization of PLDLA 70/30 ACL Interference Screws*. **POLYMER TESTING**, v. 34, 2014.

5 - VASSOLER, JM; REIPS, L; FANCELLO, EA. *A variational framework for fiber-reinforced viscoelastic soft tissues*. **INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING**, v. 89, 2012.

6 - FANCELLO, EA; VASSOLER, JM; STAINIER, L. *A variational constitutive update algorithm for a set of isotropic hyperelastic viscoplastic material models*. **COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING**, v. 197, 2008.

Supervisor

Academic Advisory (current): 2 Doctoral Students; 3 Master Students; 1 Postdoc; 3 Undergraduate Researches (students); 5 Undergraduate Professional Internship.

Academic Advisory (selection)

Postgraduate Program in Mechanical Engineering (UFRGS):

M.Sc. Thesis

1. Lucas Casagrande. Begin: 2020 (Advisor).
2. Lucas Breda Soares. Begin: 2020 (Advisor).

Ph.D. Thesis

1. Jonatas Stefanello Fagundes. Begin: 2020 (Advisor).
2. Francisco Luiz Bresolin. Begin: 2016 (Advisor).

Postdoctorate supervision

1. Ana Barbara Krummenauer Formenton. Begin: 2019 (Advisor).

Academic Advisory (concluded): 2 PhD's Thesis; 4 MSc's Thesis; 35+ Bachelor's Thesis; 15+ Undergraduate Researchers (students); 40+ Undergraduate Professional Internship.

Academic Advisory (selection)

M.Sc. Thesis

Postgraduate Program in Mechanical Engineering (UFRGS):

1. Jonatas Stefanello Fagundes. 2020 (Advisor).
2. Francisco Luiz Bresolin. 2016 (Advisor).
3. Frederico Lagemann. 2015 (Advisor).
4. Ana Bárbara Krummenauer Formenton. 2014 (Advisor).

Postgraduate Program in Mechanical Engineering (UFSC):

1. Otávio Teixeira Pinto. 2014 (Co-Advisor).
2. Paulo Bastos de Castro. 2012 (Co-Advisor).
3. Stefano Orzechowski. 2012 (Co-Advisor).
4. Diana Fernanda Trochêz Wilchez. 2012 (Co-Advisor).

Ph.D. thesis

Postgraduate Program in Mechanical Engineering (UFRGS):

1. Ana Bárbara Krummenauer Formenton. 2019 (Advisor).
2. Frederico Lagemann. 2018 (Advisor).

Assigned Examiner: 24+ Assignments as examiner and expert for Ph.D. and MSc Thesis.

Teaching Activities

Mechanical Testing; Continuum Mechanics; Nonlinear Solid Mechanics; Finite Element Method.

2016 - present: “ENG03092 - Mecânica dos Sólidos I-A” (Solid Mechanics I-A) – 60h, for students of *Bachelor’s Degree Course in Mechanical Engineering, UFRGS*.

2012 - present: “ENG03029 - Mecânica dos Sólidos IV” (Solid Mechanics IV) – 45h, for students of *Bachelor’s Degree Course in Mechanical Engineering, UFRGS*.

2011 - present: “ENG03376 - Ensaios Mecânicos” (Mechanical Testing) – 45h, for students of *Bachelor’s Degree Course in Material and Mechanical Engineering, UFRGS*.

2011 - 2016: “ENG03003 Mecânica dos Sólidos I” (Solid Mechanics I) – 90h, for students of *Bachelor’s Degree Course in Mechanical Engineering, UFRGS*.

2015 - present: “MEC077 – Mecânica dos Sólidos I” (Solid Mechanics I) – 45h, for students of the *Postgraduate Program in Mechanical Engineering (Courses: M.Sc and Ph.D), UFRGS*.

2013 - present: “MEC133 – Introdução a Mecânica dos Sólidos Não Linear”

(Introduction to Nonlinear Solid Mechanics) – 45h, for students of the *Postgraduate Program in Mechanical Engineering (Courses: M.Sc and Ph.D)*, UFRGS.

2012 - present: “MEC082 – Elementos Finitos” (Finite Element Method) – 45h, for students of the *Postgraduate Program in Mechanical Engineering (Courses: M.Sc and Ph.D)*, UFRGS.

Research Topics

- Solid mechanics, Continuum mechanics;
- Computational and Experimental Methods;
- ***Elasticity and Inelasticity (Viscoelasticity, Mechanical Damage, Anisotropy, Viscoplasticity, etc.);***
- Metals, Thermoplastics, Composites and Biological Tissues.

Organization of Conference

2013 - 4th Internacional Symposium on Solid Mechanics, FONSECA, JSO; MARCZAK, RJ; ALVES, M; MATTOS, HC; ITURRIOZ, I; VASSOLER, JM; BITTENCOURT, E, Porto Alegre, Brazil

Date: January 8, 2021

Place: Porto Alegre – Brazil