# Pedro N. de Lima

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## EDUCATION

**UNISINOS University**, São Leopoldo, Rio Grande do Sul, BR

- M.Sc. in Production and Systems Engineering — Mar 2016 – Feb 2018
- B.Sc. in Production Engineering — Jan 2009 – Dec 2015
  - **Undergraduate Teaching Assistant - Statistics**: Provided weekly peer-to-peer support to undergraduate students in Statistics. (Feb 2013 – Dec 2013).

## TEACHING EXPERIENCE

**UNISINOS University**

- Lecturer — Mar 2018 – Current

Teaches the following disciplines for Production Engineering and Business Management courses:

- Operations Research - Linear Programming;
- Simulation Modeling (Discrete Event Simulation);
- Operations Management;
- Information Systems Management.

## RESEARCH EXPERIENCE

**GMAP | UNISINOS: Research Group on Modeling for Learning**

- Master Research Assistant — Mar 2016 – Feb 2018
  - Assignments: Developed a Monte Carlo Simulation package in R for cost-benefit analysis of Organizational Safety and Health Initiatives. In the scope of the master's research project, developed a range of algorithms for exploratory modeling and analysis of system dynamics models in R, using the Robust Decision Making approach.
  - Adviser: Prof. Daniel Pacheco Lacerda
- Undergraduate Research Intern — Jun 2013 – Dec 2015
  - Assignments: Provided assistantship for research projects delivered to private companies and public agencies. Developed an interface for system dynamics simulation integrating Ithink software and Excel, using VBA.
  - Supervisors: Prof. Luis Henrique Rodrigues and Prof. Daniel Pacheco Larcerda

## AWARDS

- **Best Brazilian Production Engineering Masters Dissertation**, ABEPRO — 2018
  Dissertation Title: Strategic Decision Making Under Deep Uncertainty in the 3D Printing Industry: A Robust Decision Making (RDM) Analysis. [Avaliação de Decisões Estratégicas sob Incerteza Profunda na Indústria da Manufatura Aditiva: Uma Análise a partir do Método Robust Decision Making (RDM).]
- **Best Brazilian Production Engineering Undergraduate Dissertation**, ABEPRO — 2016
  Dissertation Title: Problem Structuring Methods: A Review of methods to approach complex situations. [Problem Structuring Methods: Uma Revisão de Métodos para a Abordagem de Situações Complexas.].
- **CAPES PROSUP Scholarship**, Education Ministry, Brazilian Federal Government — 2016
  Merit-based scolarship for master-level studies.
- **InovApps Prize**, Communications Ministry, Brazilian Federal Government — 2015
  For proposing and deploying the Avalia Brasil App (an Android app aiming to measure Brazilian public service quality with the SERVPERF scale).
- **PROUNI Scholarship**, Education Ministry, Brazilian Federal Government — 2013
  Merit-based scolarship for undergraduate studies.

## SOFTWARE SKILLS

- **Programming: (In order of proficiency) - Github Profile**
  - R (including package development and Web Apps with the Shiny Package);
  - SQL, mySQL;
  - python.
- **Other Software:**
  - iThink (system dynamics simulation);
  - Arena (Discrete Event Simulation);
  - VosViewer (Science Mapping);
  - Wordpress (website development);
  - Tableau (data reporting);
  - Adobe Premiere (video editing).

**PROFESSIONAL AFFILIATIONS & ACTIVITIES**

- **Society for Decision Making Under Deep Uncertainty** 2017 – Present
  Member, Communications Team Volunteer
- **NUGEEP - Rio Grande do Sul State's Undergraduate Student Chapter - ABEPRO** 2015 – 2016
  Organized the first SIGEPRO (Rio Grande do Sul State's Production Engineering Symposium) in 2016, leading NUGEEP. **SIGEPRO** is a student-led academic event, bringing together more than 300 students from around the state annually.

**PUBLICATIONS**

Original titles are enclosed between parentheses for publications available only in portuguese.

## Books

Rodrigues, Luis Henrique, et al. 2014. *Operational Research - Linear programming step by step - from problem understanding to solution interpretation. (Pesquisa operacional : programação linear passo a passo : do entendimento do problema à interpretação da solução).* São Leopoldo: Editora UNISINOS. ISBN: 978-85-7431-671-0. doi:10.13140/RG.2.1.4044.6162.

## Chapters

Veit, Douglas Rafael, Daniel Pacheco Larcerda, and Pedro Nascimento de Lima. 2017. "The impacts of Additive Manufacturing on production systems". In *Lecture Notes in Management and Industrial Engineering*, ed. by Josefa Mula et al., 187–194. Springer. ISBN: 9783319934884. doi:10.1007/978-3-319-93488-4. https://doi.org/10.1007/978-3-319-93488-4_21.

## Forthcoming Papers

Dresch, Aline, et al. 2019. "Inducing Brazilian Manufacturing SMEs Productivity with Lean Tools".

Lima, Pedro Nascimento de, Aline Dresch, and Daniel Pacheco Lacerda. 2019. "Do Socioeconomic Contextual Factors Influence SMEs Service Quality? A cross-sector and cross-city SERVPERF analysis".

## Journal Papers

Tegner, Mateus Girardi, et al. 2016. "Lean Office and BPM: Method Proposition and Application for reducing waste on administrative areas (Lean office e BPM: proposição e aplicação de método para a redução de desperdícios em áreas administrativas)". *Revista Produção Online* 16, no. 3 (): 1007. ISSN: 16761901. doi:10.14488/1676-1901.v16i3.2308. https://producaoonline.org.br/rpo/article/view/2308.

**STANDARDIZED TESTS**

- English: TOEFL iBT 108 / 120 . Reading: 30/30, Listening: 29/30. Speaking: 26/30. Writing: 23/30 .
- GRE Quantitative: 165 / 170 . GRE Verbal: 160 / 170 . GRE Analytical Writing: 4 / 6.

**SOFTWARE**

- **Arena2R**: An R Package for Arena Simulation Users.

**WORK EXPERIENCE**

**Rede Industrial**, SIGMA CMMS, Rio Grande do Sul, BR

- Chief Analyst Jan 2012 – May 2013
  - Oversaw SIGMA's (a computerized maintenance management system) support and development team.
- Business Analyst Mar 2009 – Jan 2012
  - Carried out requirement and use-case analysis for software improvements; Developed a working knowledge of Structured Query Language (SQL) for database reporting.
- Support Assistant, Sigma CMMS Software May 2008 – Dec 2009
  - Assisted Sigma's customers' issues troubleshooting and carried out Sigma's Quality Assurance processes.

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