

Pedro Nascimento 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
 - Master Dissertation: Assessing Exploratory Modeling Analysis and Robust Decision Making contributions to Business Strategic Decision Making Under Uncertainty. [Avaliação de Decisões Estratégicas sob Incerteza: Análise das Contribuições da Modelagem Exploratória (EMA) e Robust Decision Making (RDM).]
- **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).
 - **Overall Coefficient:** 8.89 / 10.0.

TEACHING EXPERIENCE

UNISINOS University

- **Lecturer** Mar 2018 – Current
 - Teaches the following disciplines for undergraduate and MBE courses: Operational Research - Linear Programming; Simulation Modeling (Discrete Event Simulation); Hard and Soft OR Methods; Business Process 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 Lacerda

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.

AWARDS

- **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 scholarship 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 scholarship for undergraduate studies.

SOFTWARE SKILLS

- **Programming: (In order of proficiency).** R (including package development and Shiny Apps), SQL, mySQL, python, Java. Language preferences vary with time. Please check my GitHub Profile for an update on what I have been working on: github.com/pedroliman.
- **Other Software:** iThink (system dynamics simulation), Arena (Discrete Event Simulation), Anylogic (multi-method 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.

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.

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>.

Full Conference Papers

Lima, Pedro Nascimento de, and Mateus Girardi Tegner. 2015. "How to improve an SME's service operation? Applying service operation tools in the Business to Business Phase 3 context. (O que Melhora a Operação de Serviço de uma Pequena Empresa? Ferramentas para a Melhoria de Operações de Serviço e Aplicação em seis e)". In *XXXV ENEGEP, 2015*, 35:15. ABEPRO. doi:10.13140/RG.2.1.1423.1763.

Lima, Pedro Nascimento de, et al. 2015a. "Lean Office in Practice: proposing and applying a method with a business process management approach. (Lean Office na Prática: Proposição e Aplicação de Método à Luz do Gerenciamento de Processos)". In *XXXV ENEGEP, 2015*, 35:19. ABEPRO. doi:10.13140/RG.2.1.3782.4724.

Lima, Pedro Nascimento de, et al. 2015b. "Minimizing Maintenance Costs: An alternative to preventive maintenance schedule resource levelling using Linear Programming and Reliability Engineering (Minimizando Custos de Manutenção: Uma alternativa para o Nivelamento de Recursos de um Cronograma de M)". In *XXXV ENEGEP, 2015*, 35:18. ABEPRO, 2015. doi:10.13140/RG.2.1.4245.3207.

Lima, Pedro Nascimento de, et al. 2015c. "The DEPARIS's approach contribution to Fleet maintenance ergonomics. (Ergonomia e Segurança no Setor Aeronáutico: A Contribuição do Diagnóstico Participativo de Riscos em um Ambiente de Manutenção de Aeronaves.)" In *XXXV ENEGEP, 2015*, 35:15. ABEPRO. doi:10.13140/RG.2.1.2471.7529.

Machado, Mateus dos Santos, et al. 2015. "A systems approach for identifying leverage points to interdepartmental cooperation. (Proposição de uma Abordagem Sistêmica para identificar ações alavancadoras para o aumento da cooperação intedepartamental)". In *XXXV ENEGEP, 2015*, 35:21. ABEPRO. doi:10.13140/RG.2.1.2733.8969.

Santos, Andrey Schmidt dos, et al. 2016. "Truck loading Simulation at a Metallurgicall Company (Simulação de Carregamento de Caminhões em uma Indústria Metalúrgica)". In *I SIGEPRO, 1*:233–245. 1. NUGEEP. doi:10.13140/RG.2.2.18008.49925.

STANDARDIZED TESTS

- English: TOEFL iBT 108 / 120 (92nd percentile). Reading: 30/30, Listening: 29/30. Speaking: 26/30. Writing: 23/30 - 2017.
- GRE Quantitative: 165 / 170 (89th percentile). GRE Verbal: 160 / 170 (82nd percentile) - 2017.