

Pedro N. de Lima

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EDUCATION

Pardee RAND Graduate School, Santa Monica, CA

Ph.D. in Policy Analysis

Expected Jun 2024

UNISINOS University, São Leopoldo, Brazil

M.S. in Production Engineering

Feb 2018

B.S. in Production Engineering

Dec 2015

WORK EXPERIENCE

UNISINOS University

São Leopoldo, Brazil

Lecturer - Polytechnic School

Feb. 2018 - Jun. 2019

- Taught the following disciplines in undergraduate and MBA classes: Operations Research - Linear Programming; Simulation Modeling (Discrete Event Simulation); System Dynamics Simulation; Operations Management; Information Systems Management.
- Advised undergraduate and MBA students in their capstone research projects, one of which received the Best Brazilian Production Engineering Undergraduate Dissertation Award from ABE-PRO (2019).

Master Research Assistant - GMAP Research Group

Feb. 2016 - Feb. 2018

- Developed a Monte Carlo Simulation package in R for cost-benefit analysis of Organizational Safety and Health Initiatives.
- Developed algorithms for exploratory modeling and analysis of system dynamics models in R.
- Developed a competition dynamics model for the Professional Additive Manufacturing Industry.

Undergraduate Research Intern - GMAP Research Group.

Jun. 2013 - Feb. 2016

- Developed a model of global competition between iron ore producers, taking into account regional comparative advantages and detailed substitution dynamics among different iron ore types.
- Developed a VBA tool to run simulations, aggregate and summarize simulation results.
- Conducted Business Process Modeling of productivity and innovation induction programs for government agencies in Southern Brazil (AGDI and SEBRAE/RS).

Rede Industrial

Presidente Lucena, Brazil

Chief Analyst

Jan. 2012 - Jun. 2013

- Oversaw SIGMA's (a CMMS) software development and support teams.
- Conceptualized most of the new features included in the 2012 release, including the SIGMA's integration module, Sigma SMS module and SIGMA's Android App.

Business Analyst

Jan. 2009 - Jan. 2012

- Conducted software requirements analysis for internal and external clients.
- Developed SQL queries for database reporting and bug troubleshooting.
- Quality Assured SIGMA's new features.
- Streamlined software development processes implementing and customizing Jira workflows.

DISTINCTIONS AND AWARDS

Best Brazilian Production Engineering Undergraduate Dissertation (Advisor)	<i>ABEPRO, 2019</i>
Best Brazilian Production Engineering Masters Dissertation (Author)	<i>ABEPRO, 2018</i>
Best Brazilian Production Engineering Undergraduate Dissertation (Author)	<i>ABEPRO, 2016</i>
PROSUP M.Sc. Scholarship	<i>CAPES, 2016</i>
Inovapps Prize - Avalia Brasil App	<i>Brazilian Communications Ministry, 2015</i>

RESEARCH PAPERS

Veit, D. R., Lacerda, D. P., **Lima, P. N.** (2019). **The impacts of Additive Manufacturing on production systems**. In J. Mula, R. Barbastefano, M. Díaz-Madroñero, Raúl Poler (Eds.), *Lecture Notes in Management and Industrial Engineering* (pp. 187–194). <https://doi.org/10.1007/978-3-319-93488-4>

Dresch, A., Veit, D. R., **Lima, P. N.**, Lacerda, D. P., Collatto, D. C. (2019). **Inducing Brazilian manufacturing SMEs productivity with Lean tools**. *International Journal of Productivity and Performance Management*, 68(1), 69–87. <https://doi.org/10.1108/IJPPM-10-2017-0248>

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Society for Decision Making Under Deep Uncertainty

Communications and Outreach Chair *2019 - Present*

Member, Communications Team Volunteer *2017 - 2018*

NUGEEP - Rio Grande do Sul State Student Chapter - ABEPRO

President *2015 - 2016*

TECHNICAL SKILLS

I have a background of practical work with **SQL** databases from my previous experience in the software industry. Over the past several years, I developed strong programming skills in **R** by applying it in all projects I have been involved with (from machine learning models, to a personal blog, to simulation packages, to interactive web apps).

Programming	R (my primary language), python (as needed)
Web Apps Development	R's Shiny Package
Relational Databases	mySQL, MS SQL Server
Modeling and Simulation	iThink, Arena, deSolve R package
Other Tools	Tableau, Wordpress, Git
Github profile	github.com/pedroliman
Blog with R-related posts	www.pedronl.com