

Felipe Buchbinder

Brazilian, 38 (January 13th 1986)

Rio de Janeiro, Brazil

Telefone: +55 21 99867679

E-mail: felipe.buchbinder@bndes.gov.br

LinkedIn: <https://bit.ly/3vxL9FP>

WORK EXPERIENCE

- **Brazilian Development Bank (BNDES):** 2013 – Present
 - 1st place among 3 employees selected to pursue a Data Science Master's, sponsored by the company
 - Founding member of the Data Science Center of Excellence
 - Produced Public Policy Evaluation studies regarding the Effectiveness of the Bank's soft loans, using techniques such as Propensity Score Matching, Synthetic Control and various Panel Data models.
 - Trained and deployed various Machine Learning models to automate or support decision-making
 - Collaborated with colleagues to generate and interpret analytical data for public policies.
 - Designed, implemented and analyzed data from numerous surveys
 - Currently working with Climate Policies, Energy Transition and Sustainable Development, for example, by managing and analyzing the datasets necessary to calculate the Bank's greenhouse gas emissions (GEEs) inventory (scopes 1, 2 and 3)
- **Getulio Vargas Foundation (FGV):** 2011 – Present
 - Adjunct professor with 10+ years experience teaching courses at Graduate and Undergraduate levels in various subjects, such as Data Science, Statistics, Macroeconomics and Sustainable Public Policies.
 - Created and implemented the curriculum of multiple courses, including all 13 courses in Mathematics and Programming from FGV's Business School
 - Researcher of the Applied Research Center in Accounting and Analytics (ARC-A&A), with research on using AI to identify inconsistencies (and, more broadly, mismanagement) in public accounts (in partnership with Rutgers University's Continuous Auditing Research Lab).
 - Mentored students in the development of their own research projects
- **Red Hat (IBM):** May 2020 – August 2020
 - Graduate level internship at the Global Finance Analytics team
 - Developed Machine Learning models to predict sales of Red Hat's products by region and successfully implemented these models into the production environment.
- **Deloitte:** 2009 – 2010
 - Analyst at the Enterprise Risk Services Division
 - Assessed companies' risks regarding business and operational processes, internal auditing, financial reporting and other internal controls, as well as regulatory compliance.

EDUCATION

- 2019 – 2021: Master of Data Science by Duke University, USA
- 2011 – 2015: PhD in Public and Business Administration by Getulio Vargas Foundation (FGV), Brazil
- 2010 – 2011: Masters in Public and Business Administration by Getulio Vargas Foundation (FGV), Brazil
- 2006 – 2007: Exchange program in Bioinformatics and Modelling of Complex Biological Systems, at INSA-Lyon, France
- 2003 – 2008: Bachelor in Industrial Engineering by the Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil

CERTIFICATIONS

AWS Certified Machine Learning Specialty (Amazon)

IBM AI Engineering (IBM)

SELECTED PAPERS

- Schmall dos Santos, L. O., Lopes Cardoso, R., Buchbinder, F., & Vasarhelyi, M. A. (2024). **Doublethink in governmental accounting: development of an RPA to identify inconsistencies in financial reporting**. The International journal of digital accounting research, 24.
- Guzella, Marcelo and Buchbinder, Felipe (2023). **How Likely is the Investment of a Venture Capital Firm in a Latin American Country? Machine Learning Models Based on Experience, Distances and Network Features**. Available at SSRN: <https://ssrn.com/abstract=4476629> or <http://dx.doi.org/10.2139/ssrn.4476629>
- Ilchechen Coelho, G. C., Fontes Filho, J. R., & Buchbinder, F. (2019). **Effects of the Corporate Governance Practices on the Executive Compensation**. In 7th International OFEL Conference on Governance, Management and Entrepreneurship: Embracing Diversity in Organisations. April 5th-6th, 2019, Dubrovnik, Croatia (pp. 41-58). Zagreb: Governance Research and Development Centre (CIRU).
- [In Portuguese] Grimaldi, D. D. S., Pinto, A. D. R., Albuquerque, B. E., Buchbinder, F., Pereira, J. P. D. O., Nascimento, L. O. D., ... & Martini, R. A. (2018). Uma solução automatizada para avaliações quantitativas de impacto: primeiros resultados do MARVIm (**An automatized solution for quantitative evaluation of the impact of BNDES**)
- [In Portuguese] Braga, André de Castro O. P. and Buchbinder, Felipe, O Tribunal de Contas da União inibe inovações em concessões públicas? (**Does the Tribunal de Contas da União prevent innovation in federal government concessions?**) (October 9, 2015). Available at SSRN: <https://ssrn.com/abstract=2927289> or <http://dx.doi.org/10.2139/ssrn.2927289>
- Buchbinder, F., & Goldszmidt, R. B. (2013). **Proposal of a new distribution of firm performance**. In Academy of Management Proceedings (Vol. 2013, No. 1, p. 11708). Briarcliff Manor, NY 10510: Academy of Management.
- Buchbinder, F., Goldszmidt, R., & Parente, R. (2012). **Item response theory and construct measurement in emerging markets**. In West Meets East: Toward Methodological Exchange (Vol. 7, pp. 73-100). Emerald Group Publishing Limited.

STATISTICAL PACKAGES AND PROGRAMMING LANGUAGES

PYTHON (Advanced) * R (Advanced) * Excel & VBA (Advanced)

STATA (Intermediate) * Julia (Basic) * C/C++ (Basic)

LANGUAGES

English (Fluent) * Portuguese (Native speaker)

French (Advanced) * Spanish (Advanced)