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1. Professional Experience

National Center for State Courts (NCSC) (Sep 2022 – Present)
Data Scientist

- Created more than three (5+) apps (e.g., one example here) that integrate AI large language models solutions into data extraction tasks across the NCSC.
- Created the NCSC Data Dives – an ongoing publication and webinar series covering topics around data collection, analysis, and presentation for state courts.
- Led three (3) workshops (both internal and external) on potential uses of AI in state courts (e.g., one example here).
- Currently leading data collection and processing tasks for two (2) large federally funded state court criminal data project.
- Set up the infrastructure and implemented the NCSC's first large data warehouse.
- Supported the development of data science skills across various teams at the NCSC with R and LLM training.

The Criminal Justice Innovation Lab (CJIL), UNC Chapel Hill (July 2021 – Sep 2022)
Post-Doctoral Fellow

- Spearheaded the development of the Criminal Justice Innovation Lab's (CJIL) Measuring Justice Data Dashboard with over thirty-five (35) criminal justice metrics across the entire state in under six (6) months.
- Optimized CJIL's data analysis pipelines through the implementation of R and Python programs and reduced the amount of time necessary for processing state criminal case data from two (2) weeks to forty-eight (48) hours.

The Growth Lab, Harvard University (June 2020 – May 2021)
Post-Doctoral Fellow

- Co-authored paper on changes of occupational tasks and implications for computerization and the gender pay gap.
- Designed an algorithm to perform extractive summarization of long documents.
- Managed two survey experiments for two applied research projects with over 15,000 respondents and co-authored paper on the factors determining Colombian migration.
- Designed a data dashboard to report the results of one of the survey experiments in under thirty (30) days.

UNC Chapel Hill (July 2015 – May 2020)
Graduate Research and Teaching Assistant

- Completed 5+ research projects (now submitted, under review, or accepted for publication).
- Managed 5+ advisor-led research projects using experimental research methods.
- Independently taught a graduate-level course on political economy of development and an undergraduate-level course on quantitative analysis of public policy.

United Kingdom Foreign, Commonwealth & Development Office (April 2013 – July 2015)
Economics Officer
- Secured 6x funding for finance and transparency projects during tenure (£50,000 to £300,000).
- Organized 3 workshops on improving Brazil's financial sector.
- Organized 5 Ministerial visits to / from the U.K / Brazil.

2. **Part-time, Unpaid, and Internship Experience**

Brazilian Association of Jurimetrics (ABJ) (Jan 2021 – Present)
Non-resident, Affiliated Researcher

- Secured $200,000 worth of funding from national (National Council of Justice) and international organizations (Inter-American Development Bank) – equivalent to 5 years of ABJ's operational expenses.
- Co-authored one paper on the landscape of tax (administrative) dispute resolution in Brazil and developed two data dashboards for external funders (here and here).

Brookings Institution (Jun 2016 – Aug 2016)
Summer Research Assistant

- Conducted exploratory data analyses for Metropolitan Policy Program.
- Wrote 5+ analytical pieces for the Paris Global Competitiveness report.
- Wrote independent grant application on the impact of immigration on human capital in U.S. metropolitan areas.

FECAP (Apr 2014 – Jun 2015)
Lecturer

- Responsible for designing and teaching IFRS Executive Education Course on Financial Markets and Risks

Center for Politics and Economics of the Public Sector, FGV-EAESP (Feb 2011 – Feb 2014)

- Managed large data collection initiative to build the most comprehensive database of federal transfers to municipalities to study public management and corruption.
- Conducted statistical analysis for research paper on the governance of public health resources in Brazilian municipalities.

3. **Publications**

Jayr Pereira, **Andre Assumpcao,** Julio Trecenti, Luiz Airosa, Caio Lente, Jhonatan Cléto, Guilherme Dobins, Rodrigo Nogueira, Luis Mitchell, and Roberto Lotufo. 2024. *INACIA: Integrating Large Language Models in Brazilian Audit Courts: Opportunities and Challenges.* Digit. Gov.: Res. Pract. Just Accepted (March 2024). https://doi.org/10.1145/3652951

Schmallenbach, Leo. *A Journey through Time: the Story Behind 'Eight Decades of Changes in Occupational Tasks, Computerization and the Gender Pay Gap.'* by Ljubica Nedelkoska, Shreyas Gadgin Matha, James McNerney, **Andre Assumpcao,** Dario Diodato, and Frank Neffke. Industry and Innovation 31, 4 (April 2024). https://doi.org/10.1080/13662716.2024.2328005

Fernando Berssaneti, **Andre Assumpcao,** Oswaldo Nakao. *Engineering, Procurement, and Construction (EPC): What are the Variables that Impact the Success of the Projects Currently running in Brazil?* Gest. Prod. 21(1) (March 2014). https://doi.org/10.1590/S0104-530X2014005000009

4. Awards

2023	NCSC Jeanne Ito Award for Innovation, Cooperation, Coordination and Teamwork.
2023	DRUID Best Paper Award for "Eight Decades of Changes in Occupational Tasks, Computerization and the Gender Pay Gap".
2022	Brazilian Federal Fiscal Court (TCU) AI Grant
2022	Brazilian Health Ministry AI Grant
2018	UNC Public Policy Summer Fellowship
2017, 2018, 2019	Institute for Humane Studies Research Funding
2017	UNC Graduate School Summer Fellowship
2015, 2016	UNC Graduate School, Weiss Urban Livability Fellowship
2015	UNC Nancy F. Stegman Fellowship

5. Software

querido-diario-toolbox	**Python** module to perform text extraction, processing, and analysis of local government gazettes in Brazil.
keywordextraction	**Python** module to perform keyword extraction from any text document using TF-IDF, WordRank, and Word Embedding methods.
textfind	**Stata** command to do descriptive analysis of keywords in text documents.
emailToEvent	**AppleScript** program to create iCal events from Outlook and Mail in OS devices.

6. External Conference Presentations, Workshops, and Speaking Engagements

2025	NCSC Court Technology Conference (CTC) (scheduled)
2025	Association of Transportation Safety Information Professionals (scheduled)
2025	NCSC Data Specialist and Information Technologists Summit
2024	American Society of Criminology
2024	NCSC National eCourts Conference
2024	NCSC Lawyer Council April Meeting
2024	NCSC State Courts' AI Implementer's Forum

2023	Court Information Technology Officers Conference (CITOC)
2023	Oregon Judicial Department Justice Campaign Leadership Summit
2023	NCSC Court Technology Conference (CTC)
2023	NCSC Data Specialist and Information Technologists Summit
2023	NCSC Data Specialist Roundtable
2021	UNC Chapel Hill School of Government Job Talk
2021	Brazilian Association of Jurimetrics – Café Jurimétrico
2019	Harvard Kennedy School of Government Job Talk
2019	Conference on Empirical and Legal Studies
2019	Association of Public Policy Analysis and Management Meeting
2019	IHS Research Colloquium
2019	Canadian Law and Economics Association Conference
2019	Midwestern Political Science Association Meeting
2019	PPE Society Meeting
2019	Public Choice Annual Meeting
2019	Global Conference on Transparency Research
2019	Paraná State Bar Association
2919	FGV-CEPESP
2018	IHS Fall Research Colloquium
2017	UNC Public Policy

7. Educational Background

Ph.D. Public Policy, The University of North Carolina at Chapel Hill (2020)
M.A. Public Policy, The University of North Carolina at Chapel Hill (2019)
M.P.P. Public Economics, Getúlio Vargas Foundation (2012)
B.A. Economics, The State University of Campinas (2008)