

Andre Assumpcao

Chief Data Strategist, National Center for State Courts (NCSC)

andre.assumpcao@gmail.com | aassumpcao.github.io | linkedin.com/in/aassumpcao | github.com/aassumpcao

EDUCATION

2020	Ph.D. Public Policy <i>The University of North Carolina at Chapel Hill</i>
2019	M.A. Public Policy <i>The University of North Carolina at Chapel Hill</i>
2012	M.P.P. Public Economics <i>Getúlio Vargas Foundation</i>
2008	B.A. Economics <i>The State University of Campinas</i>
2007	Visiting student Economics <i>The University of Texas at Austin</i>

ACADEMIC AND PROFESSIONAL POSITIONS

2022–Present	National Center for State Courts (NCSC) Chief Data Strategist (Nov 2025 – Present) Data Scientist (Sep 2022 – Oct 2025) • Created more than three (3+) apps that integrate AI large language model solutions into data extraction tasks across the NCSC. • Created the NCSC Data Dives – an ongoing publication 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. • Led data collection and processing tasks for two (2) large federally funded state court criminal data projects. • 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.
2021–Present	Brazilian Association of Jurimetrics (ABJ) 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.
2021–2022	Criminal Justice Innovation Lab (CJIL), UNC School of Government Post-Doctoral Fellow • Spearheaded the development of CJIL's 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, reducing the time necessary to process state criminal case data from two (2) weeks to forty-eight (48) hours.
2020–2021	Growth Lab, Center for International Development, Harvard University 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.
- 2015–2020 **University of North Carolina at Chapel Hill**
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.
- 2016 **The Brookings Institution**
Summer Research Assistant
- Conducted exploratory data analyses for the 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.
- 2013–2015 **United Kingdom Foreign, Commonwealth & Development Office**
Economics Officer
- Secured a 6x increase in 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.
- 2014–2015 **FECAP**
Lecturer
- Designed and taught the IFRS Executive Education course on Financial Markets and Risks.
- 2011–2014 **Center for Politics and Economics of the Public Sector (CEPESP), FGV-EAESP**
Research Assistant
- 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.

PUBLICATIONS

- 2026 Juvenal Domingos Júnior, Augusto Faria, E. Seiti de Oliveira, Erick de Brito, Matheus Teotonio, **Andre Assumpcao**, Diedre Carmo, Roberto Lotufo, and Jayr Pereira. “BR-TaxQA-R: A Dataset for Question Answering with References for Brazilian Personal Income Tax Law, Including Case Law.” *Intelligent Systems (BRACIS 2025), Lecture Notes in Computer Science*, 208–222 (2026). doi.org/10.1007/978-3-032-15987-8_14
- 2025 Jayr Pereira, **Andre Assumpcao**, Julio Trecenti, Luiz Airoso, Caio Lente, Jhonatan Cléto, Guilherme Dobins, Rodrigo Nogueira, Luis Mitchell, and Roberto Lotufo. “INACIA: Integrating Large Language Models in Brazilian Audit Courts: Opportunities and Challenges.” *Digital Government: Research and Practice* 6(1), Article 6 (2025). doi.org/10.1145/3652951
- 2024 Leo Schmallenbach. “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) (2024). doi.org/10.1080/13662716.2024.2328005

- 2014 Fernando Berssaneti, **Andre Assumpcao**, and Oswaldo Nakao. "Engineering, Procurement, and Construction (EPC): What Are the Variables That Impact the Success of the Projects Currently Running in Brazil?" *Gestão & Produção* 21(1) (2014). doi.org/10.1590/S0104-530X2014005000009

CONSULTING EXPERIENCE

- 2023–Present **Brazilian Federal Court of Accounts (TCU)**. Supported the development of an AI tool that automates the analysis of legal proceedings of the court. neuralmind.ai/assertia
- 2021–2022 **Inter-American Development Bank (IDB)**. Analyzed Brazil's administrative tax litigation system, reviewing its effectiveness, institutional design, and key challenges across all levels of government. abj.org.br/pesquisas/bid-tributario
- 2020–2021 **Open Knowledge Foundation, Brazilian Office**. Applied natural language processing to analyze local government gazettes in Brazil. github.com/okfn-brasil/querido-diario-toolbox
- 2019–2020 **Brazilian Association of Investigative Reporting (ABRAJI)**. Structured the data feeding ABRAJI's portal containing all lawsuits filed against Brazilian politicians since 2014. publique-se.org.br, github.com/abraji/publique_se

TEACHING

- Political Economy of Development* (graduate), University of North Carolina at Chapel Hill — Instructor
- Quantitative Analysis of Public Policy* (undergraduate), University of North Carolina at Chapel Hill — Instructor
- 2014–2015 *Financial Markets and Risks (IFRS Executive Education)* (executive education), FECAP — Lecturer

AWARDS, GRANTS, AND FELLOWSHIPS

- 2024 AWS Imagine Grant Cash Award
- 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 Court of Accounts (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

PRESENTATIONS AND SPEAKING ENGAGEMENTS

- 2025 Judicial Council of California – 2025 Data Summit; NCSC Court Technology Conference (CTC); NCSC Data Specialist and Information Technologists Summit.
- 2024 American Society of Criminology; NCSC National eCourts Conference; Kansas Judicial Branch Judicial Education Conference; NCSC Lawyer Council April Meeting; NCSC State Courts' AI Implementer's Forum.
- 2023 Court Information Technology Officers Conference (CITOC); Oregon Judicial Department Justice Campaign Leadership Summit; NCSC Court Technology Conference (CTC); NCSC Data Specialist and Information Technologists Summit; NCSC Data Specialist Roundtable.
- 2021 UNC Chapel Hill School of Government Job Talk; Brazilian Association of Jurimetrics – Café Jurimétrico.

2019	Harvard Kennedy School of Government Job Talk; Conference on Empirical Legal Studies; Association for Public Policy Analysis and Management Meeting; IHS Research Colloquium; Canadian Law and Economics Association Conference; Midwest Political Science Association Meeting; PPE Society Meeting; Public Choice Society Annual Meeting; Global Conference on Transparency Research; Paraná State Bar Association; FGV-CEPESP.
2018	IHS Fall Research Colloquium.
2017	UNC Public Policy.

SOFTWARE

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

SKILLS

Methods	Econometrics, Causal inference, Predictive modeling, Natural language processing, Large language models
Programming	R, Python, Stata
Data infra-structure	Data warehousing, Data pipelines, Dashboards, Data governance
Languages	Portuguese (native), English (full professional), Spanish (full professional)

Last updated: Oct 2026