Andre Assumpcao

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Summary

Computational social scientist / data scientist / quantitative analyst with expertise in empirical legal studies, political economy of development, and corruption. 10 years of research experience in academia, government, and private sector. Particularly interested in natural language processing (NLP) applications to law, economics, and politics.

Education

The University of North Carolina at Chapel Hill (UNC Chapel Hill) — Ph.D., M.A.   2015 — 2020
Concentration: Empirical Legal Studies and Political Economy of Development

Getulio Vargas Foundation (FGV) — M.P.P. *with honors*   2010 — 2012
Concentration: Economics of Corruption; Political Economy; Public Economics

The State University of Campinas (UNICAMP) — B.A.   2004 — 2008
Concentration: Applied Microeconomics

Experience

Post-Doctoral Fellow — UNC's School of Government   July 2021 — (current)

1. Currently working on racial equity issues in the U.S. criminal justice system

Senior Researcher — Brazilian Association of Jurimetrics (ABJ)   Jan 2021 — (current)

1. Currently working on policy projects to improve the Brazilian justice system and to support the use of empirical evidence in the legal word

Post-Doctoral Fellow — Harvard Kennedy School   Jun 2020 — May 2021

1. Developed algorithm to process, classify, and extract content from job descriptions.
2. Developed algorithm to produce artificial titles for occupations and industries.
3. Implemented survey experiments for two applied research projects.

Graduate Research and Teaching Assistant — UNC Chapel Hill   Jul 2015 — May 2020

1. Completed 5+ independent research projects (currently submitted or under review).
2. Worked on 5+ advisor-led research projects using experimental research methods.
3. Taught independently a graduate-level course on political economy of development and an undergraduate-level course on quantitative analysis of public policy.

Summer Research Intern — The Brookings Institution   Jun 2016 — Aug 2016

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

Previous Experiences Omitted   Prior to July 2015

Awards, Funding, and Independent Consulting

Consulting for the Brazilian Office of the Open Knowledge Foundation   Oct 2020 — (current)

   Currently applying natural language processing techniques to extract, process, and analyze text of local government gazettes in Brazil. Role also includes creating search engine and data visualization tools in 2021. A sample of the work is available at:

   https://github.com/okfn-brasil/querido-diario-toolbox

Won National Award partnering with the Brazilian Association of Jurimetrics (ABJ)   Nov 2020

   Working with colleagues at ABJ, won national competition held by the National Council of Justice (CNJ) to structure and analyze court data from all 92 state, federal, labor, military, and electoral courts in Brazil. The winning dashboard is available at:

   https://github.com/abjur/inovaCNJ

Consulted for the Brazilian Association of Investigative Reporting (ABRAJI)   Oct 2019 — Oct 2020

   Structured the data feeding ABRAJI's portal containing all lawsuits filed against Brazilian politicians since 2014. Work involved connection to data API, merging court data with various other public data, and text analysis to match plaintiffs and claimants to candidates running for elected office. The portal and underlying code are respectively available at:

   https://publique-se.org.br

   https://github.com/abraji/publique_se

Institute for Humane Studies Dissertation Funding   2017, 2018, and 2019
UNC Public Policy Summer Fellowship   2018
UNC Graduate School Summer Fellowship   2017
Weiss Urban Livability Fellowship, UNC Graduate School   2015 — 2016
UNC Nancy F. Stegman Fellowship   2015

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.

Skills & Abilities

Programming / Markup / Data API	**Methods**
Python, R, Stata	Causal Inference and Experimental Design
HTML, CSS, Markdown, Git	Statistical / Machine Learning
SQL, Spark, Hadoop (basic)	Natural Language Processing (NLP)