Andre Assumpcao

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Summary

Quantitative social scientist / data scientist with expertise in empirical legal studies, U.S. criminal justice system, political economy of development, and corruption. 10 years of research experience in academia, government, and private sector.

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 — Harvard Kennedy School and UNC Chapel Hill   Jun 2020 — Sep 2022

1. Worked on racial equity research in North Carolina's Criminal Justice System.
2. Develop UNC's Criminal Justice Innovation Lab's (CJIL) main data Dashboard.
3. Streamlined UNC CJIL's data analysis pipelines improving record linkage algorithms.
4. At HKS, created algorithm to classify and extract content from job descriptions.
5. At HKS, created algorithm to produce artificial titles for occupations and industries.
6. At HKS, 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 Association of Investigative Reporting (ABRAJI)   Oct 2019 — (current)

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

Consulting for the Brazilian Office of the Open Knowledge Foundation   Oct 2020 — Jul 2022

Applied natural language processing techniques to extract, process, and analyze text of local government gazettes in Brazil. Role also included creating search engine and data visualization tools. 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

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 analysis of local government gazettes in Brazil.
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.
MeasuringJustice	**R Shiny App** with Criminal Justice Metrics for the state of North Carolina.
ColombianDiaspora	**R Shiny App** to display information for the largest Diaspora Survey ever conducted.

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)