

# Galileu Kim

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## SUMMARY

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PhD candidate in political science at Princeton, specialized in bureaucratic administration and public service delivery. Experience restructuring federal programs in the Brazilian Ministry of Finance

## WORK EXPERIENCE

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### Data Scientist

July 2019 - Present

Elogroup (Brasilia, Brazil)

#### *Analytics Team*

- Develop ML detection algorithm to reduce fraud in federal payroll system, increasing recovery rates by 40 percent on an annual 30+ billion dollars
- Create a large-scale administrative data pipeline for a national-level employment program, facilitating targeted governmental aid to 60+ million beneficiaries
- Collaborate in an agile (SCRUM) development schedule, coordinating a data science team (5 members) to deliver projects subject to time constraints
- Communicate project design and findings to government stakeholders, translating insights into actionable strategies for senior officials, including the Secretary of Labor
- Deploy high-performance clusters (HPC) pipelines to analyze Big Data, using cloud-based technologies (Azure Databricks, PySpark) and production-level code (R, Python)

## RESEARCH EXPERIENCE

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### Graduate Researcher

September 2015 – Present

Princeton University (Princeton, NJ)

#### *Research Program in Political Economy*

- Analyze how patronage and bureaucratic turnover negatively affects public education in Brazil, leveraging large-scale administrative data on civil servants and local surveys
- Independently plan and conduct fieldwork in public schools, leading on-site interviews with 80+ local politicians, teachers and school principals over the course of 2 years
- Evaluate the effectiveness of anti-corruption audits on bureaucratic corruption, showing that a moderate redesign of the policy can reduce corruption by 20%
- Present research findings at academic conferences, including the panel “Frontiers of Bureaucratic Research” at the American Political Science Association Conference
- Complete 2-year quantitative analysis graduate training sequence, covering topics in causal inference, multivariate regression, NLP, Bayesian inference and ensemble models

## EDUCATION

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### Princeton University (Princeton, NJ)

Expected December 2020

- Ph.D. in Political Science, GPA: 3.77/4.00
- Lassen Fellowship Recipient, awarded to 5 outstanding Latin American scholars.

### University of Pennsylvania (Philadelphia, PA)

May 2013

- B.A. in Political Science and Economics, GPA: 3.85/4.00

## TECHNICAL SKILLS

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- **Statistical analysis:** causal inference, experimental design, machine learning
- **Data manipulation and visualization:** tidyverse, data.table, ggplot, pandas, seaborn
- **Statistical programming:** R, Python, SQL, PySpark, Azure Databricks.
- **Languages:** Portuguese, Spanish, French, Korean (proficient), German (proficient)

## SELECTED PAPERS

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- Iaryczower, Matias, Galileu Kim and Sergio Montero. "Representation Failure." Review and Resubmit at the American Journal of Political Science.
- Kim, Galileu. "Government through Patronage: Bargaining for Education in Decentralized Brazil."
- Ferrali, Romain and Galileu Kim. "Are anti-corruption audits effective? Evidence from Brazilian Municipalities."
- Kim, Galileu and James Mao. "Corporate Interests and Campaign Donations in Brazilian Municipalities."

## SELECTED CONFERENCE PRESENTATIONS

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- **Panel**, American Political Science Association. "Governing through Patronage: Bargaining for Education in Decentralized Brazil." 2020
- **Panel**, American Political Science Association. "Are anti-corruption audits effective? Evidence from Brazilian Municipalities."
- **Panel Chairman**, Latin American Studies Association. "The Cost of Governing: Coalitional Politics and Bureaucratic Cohesion in Municipal Brazil." 2019

## AFFILIATIONS

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- Brazilian Professionals Abroad, Brazil Lab, Princeton Latin American Graduate Student Association, Princeton Graduate Consulting Group

## HONORS AND AWARDS

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2019 Dissertation Fellow for the Program in Latin American Studies (\$13,500)  
2018 Princeton Institute for International and Regional Studies Grant (\$2,500)  
2018 Program in Latin American Studies Grant (\$2,500)  
2015 Lassen Fellowship Summer Research Grant (\$2,500)  
2013 Phi Beta Kappa honors society