

# Arthur Bragança

(Last Update: October 2024)

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The World Bank Environment Unit  
<https://arthurbraganca7.github.io/>

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## PERSONAL INFORMATION

*Full Name:* Arthur Amorim Bragança

*Date of Birth:* December 7, 1985

*Nationality:* Brazilian

## CURRENT EMPLOYMENT

The World Bank

*Senior Economist:* 2022-

ENAp (National School of Public Administration)

*Invited Professor:* 2022-

## PREVIOUS EMPLOYMENT

Climate Policy Initiative, PUC-Rio

*Head of Policy Evaluation:* 2019-2022

*Senior Analyst:* 2018-2019

Department of Economics, PUC-Rio

*Lecturer:* 2016-2022

TRACES

*Economist:* 2015-2018

## EDUCATION

Ph.D. in Economics, PUC-Rio, 2009-2014

*Dissertation:* [Three Essays on Rural Development in Brazil](#)

*Supervisors:* [Juliano Assunção](#) and [Claudio Ferraz](#)

*Visiting Ph.D. Student, Harvard University (2013)*

B.A. in Economics, Federal University of Minas Gerais (UFMG), 2004-2008

*Visiting Student, Queen Mary University of London (2007)*

## RESEARCH INTERESTS

Environment, Development, Public Economics

## LANGUAGES

Portuguese (native), English (fluent), Spanish (fluent)

## PUBLICATIONS

1. "Cutting Special Interests by the Root: Evidence from the Brazilian Amazon" (with Ricardo Dahis). *Journal of Public Economics*, vol. 215, 2022. DOI
2. "Extension Services Can Promote Pasture Restoration: Evidence from Brazil's Low Carbon Agriculture Plan" (with Peter Newton, Avery Cohn, Juliano Assunção, Cristiane Camboim, Diego de Faveri, Barbara Farinelli, Viviana Perego, Mateus Tavares, Janei Resende, Sidney de Medeiros, and Timothy Searchinger), *Proceedings of the National Academy of Sciences*, vol. 119(12), 2022. DOI
3. "Geographic Heterogeneity and Technology Adoption: Evidence from Brazil" (with Juliano Assunção and Pedro Hemsley), *Land Economics*, vol. 95(4), pp. 599-616, 2019. DOI
4. "Predicting Intensification on the Brazilian Agricultural Frontier: Combining Evidence from Lab-In-The-Field Experiments and Household Surveys" (with Avery Cohn), *Land*, vol. 8(1), 21, 2019. DOI
5. "The Effects of Crop-to-Beef Prices on Deforestation: Evidence from the Tapajós Basin," *Environment and Development Economics*, vol. 23(4), pp. 391-412, 2018. DOI.
6. "The Economic Consequences of the Agricultural Expansion in Matopiba," *Revista Brasileira de Economia*, vol. 72, p. 161-185, 2018. DOI

## WORKING PAPERS

7. "Transportation Infrastructure and Deforestation in the Amazon" (with Juliano Assunção and Rafael Araújo), May 2024. Revise & Resubmit, *Journal of Development Economics*
8. "Decentralization and Land Taxation in Brazil" (with Diogo Britto, Alexandre Fonseca, Davi Moura, Breno Sampaio, André Sant'anna, and Dimitri Szerman), September 2024.
9. "The Long Run Effects of Forest Incentives in Guatemala" (with Mariana Conte Grand and Nicolas Borchers), September 2024.

## POLICY PAPERS

10. "Mining Royalties and Socioeconomic Development in the State of Pará," (with Rafael Araújo), *Climate Policy Initiative*, July 2022.

11. "Roadmap for Sustainable Infrastructure in the Amazon," (with Joana Chiavari, Luiza Antonaccio, Brenda Prallon, Rafael Araújo, Gabriel Cozendey, and Ana Cristina Barros), *Climate Policy Initiative*, July 2022.
12. "Redefining Priorities in Infrastructure Development in the Amazon: Evidence from the State of Pará," (with Mateus Moraes), *Climate Policy Initiative*, May 2022.
13. "Accessibility in the Legal Amazon: Digital Solutions," (with Rafael Araújo and Juliano Assunção), *Amazônia 2030*, May 2022.
14. "Accessibility in the Legal Amazon: Delimiting the Area of Influence and Environmental Risks," (with Rafael Araújo and Juliano Assunção), *Amazônia 2030*, May 2022.
15. "Accessibility in the Legal Amazon: Measuring Market Access," (with Rafael Araújo and Juliano Assunção), *Amazônia 2030*, May 2022.
16. "The Economics of Cattle Ranching in the Amazon: Land Grabbing or Pushing the Agricultural Frontier?," (with Francisco Luis Lima Filho and Juliano Assunção), *Climate Policy Initiative*, October 2021.
17. "Governance, Area of Influence, and Environmental Risks of Transport Infrastructure Investments: Case Studies in the State of Pará," (with Luiza Antonaccio, Brenda Prallon, Rafael Araújo, Ana Cristina Barros, and Joana Chiavari), *Climate Policy Initiative*, September 2021.
18. "Increasing Cattle Productivity in the Amazon Requires New Technologies," (with Francisco Luis Lima Filho and Juliano Assunção), *Climate Policy Initiative*, June 2021.
19. "Measuring the Indirect Effects of Transportation Infrastructure in the Amazon," (with Juliano Assunção and Rafael Araújo), *Climate Policy Initiative*, October 2020.
20. "The Need to Better Define and Delimit the Area of Influence for Infrastructure Projects," (with Luiza Antonaccio, Ana Cristina Barros, and Joana Chiavari), *Climate Policy Initiative*, August 2020.
21. "The Environmental Impacts of the Ferrogrão Railroad: an *Ex-ante* Evaluation of Deforestation Risks," (with Juliano Assunção and Rafael Araújo), *Climate Policy Initiative*, March 2020.
22. "Productivity for Cattle Ranching in Brazil: Pastureland Declines Might Show a New Pathway," (with Juliano Assunção), *Climate Policy Initiative*, November 2019.
23. "Pathways for Sustainable Agricultural Production in Brazil: Necessary Investments and Potential Gains of Increasing Efficiency," (with Juliano Assunção), *Climate Policy Initiative*, June 2019.
24. "The Dynamics of Agricultural Technology Adoption in Brazil: Evidence Shows Three Distinct Patterns of Technology Uptake," (with Juliano Assunção), *Climate Policy Initiative*, October 2018.
25. "High Productivity Agricultural Techniques in Brazil: Adoption Barriers and Potential Solutions," (with Juliano Assunção and Pedro Hemsley), October 2013.

## GRANTS

1. "Infrastructure in the state of Pará (Brazil)," Gordon & Betty Moore Foundation, 2020-2022, US\$ 1,228,000, Role: co-PI.
2. "Smart Infrastructure in the Brazilian Amazon," Gordon & Betty Moore Foundation, 2019-2021, US\$ 719,000, Role: co-PI.
3. "Experimental Evaluation of the ABC Cerrado Program," ClimateWorks, 2019-2020, US\$ 40,000. Role: PI.
4. "Assessing the Capital Costs of Maximizing Sustainable Agricultural Production in Brazil," World Wildlife Fund, 2018, US\$ 29,804. Role: PI.
5. "Causes and Consequences of Soy Expansion in the Matopiba region," Climate Policy Initiative, 2014-2015, US\$ 13,100. Role: PI.
6. "Estimating the Impact of Agricultural Expansion on Forests in the Tapajós Basin," Climate Policy Initiative, 2014-2015, US\$ 13,100. Role: PI.
7. "Climate Change, Crop Choice, and Agricultural Productivity in Brazil," Rede Clima, 2014-2015, R\$ 18,000. Role: Investigator.

## SEMINARS AND CONFERENCES

2023. World Bank Land Conference (x2), FGV EBAPE
2022. UFRJ
2021. Princeton, LACEA/LAMES, CEDEPLAR/UFGM
2020. UFV, NEUDC, Insper, LACEA/LAMES, RIDGE Forum on Political Economy, SBE Virtual Meeting
2019. USP, The World Bank, SBE Virtual Meeting
2018. Meeting of the Brazilian Econometric Society (SBE), AERE Summer Conference
2017. (and before) Meeting of the Brazilian Econometric Society (SBE), AERE Summer Conference, NEUDC, LACEA/LAMES (x2), PUC-Chile Economic History Lab, CEDEPLAR/UFGM, Fucap Business School, Harvard DRCLAS, Italian Summer School in Development Economics, Brown PTSC

## MEDIA

Nexo, Poder 360, Mongabay, Folha de São Paulo, Veja, Nexo Políticas Públicas (1), Nexo Políticas Públicas (2), Globo Rural, Valor Econômico (1), Valor Econômico (2), O Globo, A Granja

## **PREDOCS (W/ SUBSEQUENT PLACEMENT)**

Wallace Innocencio (PhD in Economics, London School of Economics), Manuela Magalhães (PhD in Economics, Stanford University), Mateus Morais (PhD in Economics, London School of Economics), Brenda Prallon (PhD in Economics, Cornell University), Helena Arruda (Masters in Public Administration, FGV EAESP), Pedro Fernandes (Masters in Economics, Toulouse School of Economics), Julio Barros (Masters in Public Administration, Columbia University)

## **OTHER PROFESSIONAL ACTIVITIES**

*Teaching:* Econometrics (Masters level, ENAP, 2022-), Econometrics (Undergraduate Level, PUC-Rio, 2017-2022), Introduction to Statistics (Undergraduate Level, PUC-Rio, 2017), Introduction to Economics (Undergraduate Level, PUC-Rio, 2016)

*Consulting:* The World Bank, The Global Commission on the Economy and Climate

*Referees:* Nature Sustainability, Journal of Development Economics, Economic Journal, Nature Food, Environment and Development Economics, Land Economics, Land Use Policy, *EconomiA*, *Revista Brasileira de Economia*

*Committees:* Julia Diniz Calatrone (MSc, ENAp, 2024), João Vitor Vial Marchi (MSc, FGV EESP, 2023), Thiago Pereira Lobo (PhD, FGV EESP, 2023), Isabella Meyer (MSc, UFRJ, 2023), Rodrigo Duarte Dourado (MSc, ENAp, 2022), Cicero Francisco de Lima (PhD, UFC, 2022), Lucas de Almeida Nogueira da Costa (MSc, UFRJ, 2022), Felipe Spiri (MSc, Insper, 2021), Pedro Levy Schott Pacheco (MSc, FGV EPGE, 2021), Katia Aiko Nishiyama Alves (PhD, FGV EPGE, 2020), Brenda Prallon (MSc, FGV-EMAP, 2020), Roberta Olivieri (MSc, PUC-Rio, 2020), Nathalia Sales (MSc, UFRJ, 2020), Lívia Gouvêa Gomes (PhD, PUC-Rio, 2019), Roberta Beck Tabajara (MSc, PUC-Rio, 2019), Bruno Zanotto Vigna (PhD, UFRJ, 2019), Aparajita Das (PhD, PUC-Rio, 2018), Pedro Fernandes (MSc, UFRJ, 2018), Andre Albuquerque Sant'anna (PhD, UFRJ, 2018), Marcelo Dias Paes Ferreira (PhD, UFV, 2015), Vitória Rabello de Castro (MSc, PUC-Rio, 2015)