

# Ana Carolina Bottega de Lima

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## Education

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- University of São Paulo (USP)**, São Paulo, Brazil *Aug. 2020 - Present*  
Doctoral Candidate in Economics
- Federal University of Minas Gerais (UFMG)**, Belo Horizonte, Brazil *Jan. 2018 - June 2020*  
Master of Arts in Economics (Highest honors)
- Federal University of Minas Gerais (UFMG)**, Belo Horizonte, Brazil *March 2014 - Dec. 2017*  
Bachelor of Arts in Economics (Highest honors)  
Exchange student at the University of Duisburg-Essen (2017)

## Research Visits

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- Princeton University** *Feb. - March 2023*  
Industrial Relations Section, Sponsor: Ellora Derenoncourt
- Cambridge University** *April - June 2023*  
Center of Latin American Studies, Sponsor: Pedro Loureiro

## Research Interests

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Public Finance, Macro, and Labor Economics

## Research Experience

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- Research Assistant** *Dec 2023 - Present*  
Department of Economics, Columbia University
- Research Assistant for Professors Michael Best (Columbia), Joana Naritomi (LSE), and Dimitri Szerman (Amazon)
  - “Public Procurement in São Paulo”
    - Preparation, documentation, and analysis of a large database of purchases by government and private-sector buyers.
- Research Fellow on Inequality and Taxation Studies** *April 2021 - Present*  
[Research Center on Macroeconomics of Inequalities \(MADE\)](#), University of São Paulo
- Project Coordinator and Research Assistant for Professors Pedro Forquesato (USP) and Fabiana Rocha (USP) (2022-Present)
  - “BRASMOD: An Open-Access Tax-Benefit Microsimulation Model for Brazil”
    - Assisted with compiling the rules and specifications of the Brazilian federal tax and transfer system and later coded those rules into the EUROMOD microsimulation platform.
    - Prepared and harmonized the expenditure survey “Pesquisa de Orçamentos Familiares, 2017-2018” and the quarterly household survey “Pesquisa Nacional por Amostra de Domicílios” according to the EUROMOD specifications to use it as an input for the model. Assisted with the matching of these two databases using machine learning tools.
    - Coordinated validating the model results using Brazilian administrative data.

- Coordinated a group of undergraduate research assistants, especially their training concerning Brazilian databases, coding methods, and research practices (like using Git and Github). Also supervised and delegated day-to-day tasks to this group.
- Planned and is executing two coauthored papers on the progressivity and distortions of the Brazilian tax and transfer system and on inequality decompositions for 21st-century Brazil.
- Research Assistant for Professor Laura Carvalho (OSF and USP) and Rodrigo Orair (IPEA) (2021) “Distributional effects of personal income taxation in Brazil”
  - Constructed a new income distribution database for Brazil, being the first group to combine household expenditure surveys with personal tax records and national accounts data, following the Distributional National Accounts methodology. In this case, the expenditure survey was “Pesquisa de Orçamentos Familiares, 2017-2018”.
  - Explored the final database producing different inequality measures and analyses, mainly related to gender and racial top-income inequality.
  - Simulated the distributive and budgetary effects of different Brazilian Personal Income Tax reforms using the constructed database, which also demanded working with data concerning firms’ profit distribution using causal inference tools.
  - Produced policy briefs that were widely circulated in the media about our findings regarding the gender and racial income distribution in Brazil, as well as our estimations of the immediate effects of Personal Income Tax reforms debated in Congress or proposed by politicians.

**Research Fellow, “PET” Undergraduate Independent Research Program** *Aug. 2014 - Dec. 2017*

Federal University of Minas Gerais

- Elaborated and executed one independent research project a year with advisors from the Economics (2014-2015, 2017) and Mathematics (2016) Departments;
- Participated in the editing process of the journal “Revista Multiface Online” (Editor-in-Chief, 2017; Associate Editor, 2016; Editing Director, 2014-2015);
- Participated in university extension projects;
- Organized biannual study groups.

## Works in Progress

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“Progressivity and Distortions of Taxes and Transfers in Brazil” with Pedro Forquesato, Fabiana Fontes, and João Francisco Cabral.

“Payroll Taxes, Trade, and Wages”.

## Policy Briefs

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“Notes on the Distributive and Budgetary Effects of a Reform of the Brazilian Personal Income Tax Schedule” (in Portuguese) with Luiza Pires and Pedro Forquesato, 2023, MADE/USP NPE n. 023.

*Media coverage:* [Folha de S. Paulo](#)

“How Much Income is Appropriated by Black Women? An Analysis of the Income Distribution in Brazil” (in Portuguese) with Isabela Bouza, Matias Cardomingo, Luiza Pires, and Fernanda Pereira, 2021, MADE/USP NPE n. 018.

*Media coverage:* [Folha de S. Paulo](#), [Correio Brasiliense](#)

[“The Reform Proposal for the Brazilian Personal Income Tax and its Effects on Inequality”](#) (in Portuguese) with Rodrigo Orair, Fernando Gaiger, Laura Carvalho, Matias Cardomingo, Rodrigo Fernandes, and Theo Ribas, 2021, *Made/USP NPE* n. 15.

*Media coverage:* [Folha de S. Paulo](#)

## Peer-reviewed Publications

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“Kalecki Meets Schumpeter: The Decline of Competition in a Demand-led Dynamic Model” with Rafael S. M. Ribeiro, 2023, *Metroeconomica*, 74:3, 584–605.

“The Impact of Demand on Innovation and Research Intensity” with João P. Romero and Arthur B. Cordeiro, 2022, *International Review of Applied Economics*, 37:2, 217–235.

“Mind the Wage Gap: an Empirical Analysis of the Impact of Labor Income Inequality on Economic Growth” with Rebecca Gramiscelli Hasparyk and Rafael S. M. Ribeiro, *Review of Keynesian Economics*, 11:1, 10–30.

“Innovation, Export Performance and Trade Elasticities across Different Sectors” with João P. Romero, 2021, *Structural Change and Economic Dynamics*, 58, 174–184.

## Invited Seminars

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2022 USP Seminar Series on Taxation in Brazil: Challenges and New Perspectives (São Paulo).

2021 International Taxation Forum (São Paulo).

## Conference Presentations and Summer Schools (including scheduled)

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2024 How can a UN Tax Convention address inequality in Europe and beyond? (Paris School of Economics)\*

2023 Stone Center Summer Institute (UC Berkeley); 49th Annual Conference of the Eastern Economic Association (NY); 51st ANPEC’s Meeting (Rio de Janeiro)

2022 50th ANPEC’s Meeting (Fortaleza); 26th IMK-FMM Conference (Berlin); 30th IAFFE Annual Conference (virtual).

2020 46th Annual Conference of the Eastern Economic Association (Boston).

2019 47th ANPEC’s Meeting (São Paulo); 31st Annual EAEPE Conference (Warsaw); 7th IMK-FMM International Summer School (Berlin), Model-based Macroeconomics Summer School (Rio de Janeiro).

2018 22nd IMK-FMM Conference (Berlin), YSI/INET Latin America Convening (Buenos Aires).

## Other Academic Activities

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### Interviews

2022 [“An overview of racism in Brazil: from micro to macro analyses”](#) (in Portuguese), FEA/USP.

2021 [“Tax the rich”](#) (in Portuguese), *Jornal do Campus USP*; [“Can the end of the \*Auxílio Emergencial\* worsen income inequality in Brazil?”](#) (in Portuguese), *IG Brasil Econômico*.

2020 [“Economics, philosophy, and the pandemic”](#) (in Portuguese), IV Philosophy Graduate Students Meeting at UFMG.

## Academic Service

Young Scholars Initiative, Institute for New Economic Thinking (YSI/INET)

2020 - 2023

Coordinator of the Keynesian Economics Working Group

## Referee service

“Planejamento e Políticas Públicas”

## Teaching Experience

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University of São Paulo

TA, Social Accounting and Balance of Payments (Undergrad)

*Fall 2021*

TA, Development and Macroeconomics (Grad)

*Spring 2022*

TA, Thesis Advising (Undergrad)

*2021-2022*

Federal University of Minas Gerais

Committee Member, Rebecca Gramiscelli Hasparyk (BA Thesis)

*Spring 2020*

TA, Econometrics (Undergrad)

*Fall 2019*

## Fellowships, Awards, and Honors

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CAPES scholarship for short-period research studies abroad, 2023

FIPE full scholarship for PhD program

CNPq full scholarship for master's degree program, 2018-2020

Master's thesis defended with the highest honors and “Fernando José Cardim de Carvalho” Prize on best master's thesis on macroeconomics in Brazilian programs, 2020

Bachelor's thesis selected as best of the year by the Economics Department of UFMG, 2017

Ranked 1st in the class in the bachelor's (GPA 4.0/4.0) and master's (GPA 4.0/4.0) degrees, 2017 and 2020

“Hochschulwinterkurs” scholarship at the University of Duisburg-Essen, from the German Academic Exchange Service (DAAD), 2017

“PET” Undergraduate Independent Research Program scholarship, from Sesu/MEC, 2014-2017

## Additional Information

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Programming      R, STATA, Python, LaTeX.

Languages          Portuguese (native speaker), English (fluent), German (intermediate), Spanish (basic).

Updated: January 2024