

# *CURRICULUM VITAE*

EDUARDO AMARAL HADDAD

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## *CURRENT POSITION*

Department of Economics, University of Sao Paulo – Full Professor (since 2008)

## *OTHER ACADEMIC APPOINTMENTS*

Institute of Economic Research Foundation, FIPE – Research Staff (since 1999)

The University of Sao Paulo Regional and Urban Economics Lab – Founder and Director (since 2002)

Policy Center for the New South (OCP Policy Center), Rabat, Morocco – Non-Resident Fellow (since 2015)

Université Mohammed VI Polytechnique, Faculté de Gouvernance Sciences Économiques et Sociales, Morocco, Affiliate Professor (since 2019)

Brazilian Network for Global Climate Change Research, Rede CLIMA – Sub-network Coordinator, “Economics” (since 2007)

National Institute of Science and Technology for Climate Change – Phase 2 – Research Project Coordinator, “The Economics of Climate Change” (2017-2023)

Interdisciplinary Climate Investigation Center, University of Sao Paulo – Subproject Coordinator, “The Economics of Climate Change” (since 2012)

Journal of Korea Planning Association (JKPA) – Member of the Editorial Board (since 2023)

International Regional Science Review – Member of the Editorial Board (since 2022)

Asia-Pacific Journal of Regional Science – Associate Editor (since 2016)

Journal of Global Economic Analysis – Member of the Editorial Advisory Board (since 2015)

REGION, the Journal of the European Regional Science Association – Member of the Editorial Board (since 2014)

Jahrbuch für Regionalwissenschaft / Review of Regional Research – Member of the Editorial Board (since 2013)

Revista Portuguesa de Estudos Regionais – Member of the Editorial Board (since 2012)

Journal of Social and Economic Statistics – Member of the Editorial Board (since 2012)

Estudos Econômicos – Member of the Editorial Board (since 2019)

Revista Brasileira de Estudos Regionais e Urbanos / Brazilian Review of Regional Studies – Member of the Editorial Board (since 2006)

Regional Science Association International, Immediate Past President (2023-2024), Permanent Member of the Long-Range Planning Committee (since 2023)

President of the Administration Committee of the Ryoichi Sasakawa Young Leaders Fellowship Fund (Sylff), University of São Paulo (since 2016)

## *EDUCATION*

Post-Doctoral Studies – International Economics Section (IES), Department of Economics, Princeton University – Jan 2014 to Jun 2015

Post-Doctoral Studies – Edward J. Bloustein School of Planning & Public Policy, Rutgers, The State University of New Jersey – Jan 2014 to Jun 2015

“Livre-Docência” (Habilitation) – Department of Economics, University of São Paulo – 2004

Post-Doctoral Studies – Centre for Brazilian Studies, Oxford University – Jan to Dec 1998

Ph.D. – Department of Economics, University of Illinois at Urbana-Champaign – 1997

M.A. – Department of Economics, University of Illinois at Urbana-Champaign – 1994

Bacharel (B.A.) – Department of Economics, Federal University of Minas Gerais – 1993

*M.A. Thesis:* “The Economic Structure of Minas Gerais: An Input-Output Approach” (Advisor: Prof. Werner Baer)

*Ph.D. Dissertation:* “Regional Inequality and Structural Change: Lessons from the Brazilian Economy” (Advisor: Prof. Geoffrey J. D. Hewings)

*Habilitation Thesis:* “Increasing Returns, Transportation Costs and Regional Growth” (in Portuguese)

Postgraduate Certificate in The Classical Mediterranean (Distance Learning) – Department of Archaeology and Ancient History, University of Leicester – 2019

Monash Model Course – Centre of Policy Studies and the Impact Project – Monash University, Melbourne, Australia (November 27-December 6, 1996)

ANS Lyceum: Coins of Rome (Online) – American Numismatic Society, New York, USA (May 19-June 30, 2021)

ANS Lyceum: Numismatic Methods and Theories (Online) – American Numismatic Society, New York, USA (April 13-May 18, 2022)

## *PREVIOUS POSITIONS*

Department of Economics, University of São Paulo – Chair (2017-2018)

Department of Economics, University of São Paulo – Elected Associate Chair (2016-2017)

Department of Economics (IES), Princeton University – Guest Professor (2014-2015)

Regional Economics Applications Laboratory at the University of Illinois at Urbana Champaign, REAL/UIUC, Research Affiliate (1998-2022)

Edward J. Bloustein School of Planning & Public Policy, Rutgers, The State University of New Jersey, Visiting Professor (2014-2015)

Department of Economics, University of Illinois at Urbana-Champaign, Research Assistant (1993-1994)

Regional Economics Applications Laboratory at the University of Illinois at Urbana-Champaign, REAL/UIUC, Research/Teaching Assistant (1994-1997)

Inter-American Development Bank – Intern (Summer 1995)

Inter-American Development Bank – Consultant (Summer 1996)

Centre for Brazilian Studies, Oxford University – Visiting Research Associate (1998)

School of Geography, Oxford University – Visiting Academic Staff (1998)

Department of Economics, University of Sao Paulo – Visiting Professor (1999-2001)

Department of Economics, University of Sao Paulo – Assistant Professor (2001-2004)

Institute of Economic Research Foundation, FIPE – Associate Director of Research (2001-2005)

Department of Economics, University of Sao Paulo – Associate Professor (2004-2008)

Institute of Economic Research Foundation, FIPE – Director of Research (2005-2013)

Member of the Economic Council of the Government of the State of São Paulo to advise the Vice-Governor on economic policies (September 2020-April 2022)

Member of the Economic Council of the Government of the State of São Paulo to coordinate policy advice to the Governor on the management of the COVID-19 crisis (March-September 2020)

Member of the Board of Trustees of the Institute of Economic Research Foundation, FIPE (2015-2019)

Member of the Board of Trustees of the FEAUSP Endowment Fund, University of São Paulo (2017-2018)

Alternate Member of the University of São Paulo Senate – Elected Representative of the School of Economics, Business and Accounting of the University of Sao Paulo – FEAUSP (2016-2018)

Alternate Member of the Board of Trustees of the SEADE Foundation – Representative of the University of Sao Paulo appointed by the Governor of the State of Sao Paulo (2005-2016)

National Institute of Science and Technology for Climate Change – Research Project Coordinator, “The Economics of Climate Change” (2009-2016)

Brazilian Panel of Climate Change, PBMC – Lead Author, Working Group 2 (2010-2012)

Regional Science Association International, RSAI, Councilor (2009-2014), LACRSAI Representative, Councilor (2017-2020), Elect President and Vice President (2019-2020), President (2021-2022)

Regional Science Association of the Americas, RSAmericas, First President (2008-2010), Past President and Councilor (2011-2014)

Brazilian Regional Science Association, ABER, President (2008-2010) and Member of the Board of Directors (2006-2012)

Letters in Spatial and Resource Sciences – Member of the Editorial Board (2013-2017)

Papers in Regional Science – Member of the Editorial Board (2001-2011; 2015-2018)

Papers in Regional Science – Book Review Editor (2013-2015)

Papers in Regional Science – Co-Editor (2019)

Regional Science Policy and Practice – Co-Editor (2017-2019)

*LANGUAGES*

Portuguese (native speaker)

Fluent in English

Advanced knowledge in Spanish and Italian

Intermediate knowledge in French, German, and Modern Greek

Basic knowledge in Arabic (Lebanese)

## RESEARCH

### Journal Articles

The Role of Cities: Linking Integrated Assessment Models to Urban Solutions (with Camila Callegari, Tarik Tanute *et al.*), *Sustainability*, v. 15, pp. 4766, 2023, DOI: 10.3390/su15064766

Input-Output Analysis of the Ukraine War: A Tool for Assessing the Internal Territorial Impacts of the Conflict (with Inácio Araújo, Ademir Rocha and Karina Sass), *Regional Science Policy and Practice*, 15, pp. 8-55, 2022, DOI: 10.1111/rsp3.12582

Risk Caused by the Propagation of Earthquake Losses through the Economy (with José Antonio León, Mario Ordaz and Inácio Araújo), *Nature Communications*, 13, 2908, 2022, DOI: 10.1038/s41467-022-30504-3

Off We Go! An Interregional Input-Output Analysis of E-hailing in Brazil (with Fernando S. Perobelli, Inácio F. Araújo, Miguel S. Jacob and Rodrigo Santos), *Journal of Urban Management*, 11:2, pp. 188-197, 2022, DOI: 10.1016/j.jum.2022.04.002

COVID-19 Crisis Monitor: Assessing the Effectiveness of Exit Strategies in the State of São Paulo, Brazil (with Renato S. Vieira, Inácio F. Araújo, Silvio Ichihara, Fernando S. Perobelli and Karina S. S. Bugarin), *Annals of Regional Science*, 68, pp. 501-525, 2022, DOI: 10.1007/s00168-021-01085-8

Climate Change in Brazil: Dealing with Uncertainty in Agriculture Productivity Models and the Implications for Economy-wide Impacts (with Bruno S. Souza), *Spatial Economic Analysis*, 17:1, pp. 83-100, 2022, DOI: 10.1080/17421772.2021.1934524

Regional Differences in the Economic Impact of Lockdown Measures to Prevent the Spread of COVID-19: A Case Study for Colombia (with Jaime Bonet-Morón, Diana Ricciulli-Marín, Gerson Javier Pérez-Valbuena, Inácio F. Araújo and Fernando S. Perobelli), *Revista Cuadernos de Economía*, 40(85), pp. 977-998, 2021, DOI: 10.15446/cuad.econ.v40n85.90803

Uneven Integration: The Case of Angola (with Fernando S. Perobelli, Inácio F. Araújo and Tomás P. Dentinho), *Revista Portuguesa de Estudos Regionais*, n. 59, 2021, pp. 79-98

Structural Propagation of Pandemic Shocks: An Input-Output Analysis of the Economic Costs of COVID-19 (with Fernando S. Perobelli, Inácio F. Araújo and Karina S. S. Bugarin), *Spatial Economic Analysis*, 16:3, pp. 252-270, 2021, DOI: 10.1080/17421772.2020.1844284

Dimensions of Local Development in the Colombian Pacific Region (with Inácio Fernandes de Araújo, Vinícius de Almeida Vale, Henry Duque Sandoval, Paola Andrea Garizado Roman, Lilian Andrea Carrillo Rodríguez, Elizabeth Aponte Jaramillo, Leidy Julieth Grueso Lopez), *Regional Science Policy and Practice*, v. 13, n. 4, pp. 1348-1370, 2021, DOI: 10.1111/rsp3.12453

Accessibility in the Regional CGE Framework: The Effects of Major Transport Infrastructure Investments in Poland (with Bartłomiej Rokicki, Mark J. Horridge and Marcin Stepniak), *Transportation*, 48, pp. 747-772, 2021, DOI: 10.1007/s11116-019-10076-w

The Internal Geography of Services Value-Added in Exports: A Latin American Perspective (with Inácio F. Araújo), *Papers in Regional Science*, v. 100, n. 3, pp. 713-744, 2021, DOI: 10.1111/pirs.12590

- A Bad Year? Climate Variability and the Wine Industry in Chile (with Patricio Aroca, Pilar Jano, Ademir Rocha and Bruno Pimenta), *Wine Economics and Policy*, v. 9, n. 2, pp. 23-35, 2020, DOI: 10.36253/web-7665
- Regional Economic Impact of COVID-19 in Colombia: An Input-Output Approach (with Jaime Bonet-Morón, Diana Ricciulli-Marín, Gerson Javier Pérez-Valbuena, Luis Armando Galvis-Aponte, Inácio F. Araújo and Fernando S. Perobelli), *Regional Science Policy and Practice*, v. 12, n. 6, pp. 1123-1150, 2020, DOI: 10.1111/rsp3.12320
- Water Content in Trade: A Regional Analysis for Morocco (with Fatima Ezzahra Mengoub and Vinícius A. Vale), *Economic Systems Research*, 32:4, pp. 565-584, 2020, DOI: 10.1080/09535314.2020.1756228
- A Weighted Travel Time Index Based on Data from Uber Movement (with Renato S. Vieira), *EPJ Data Science*, v. 9, n. 24, 2020, DOI: /10.1140/epjds/s13688-020-00241-y
- The Grand Tour: Keynes and Goodwin go to Greece (with Natalia Cotarelli, Thiago Cavalcante Simonato, Vinicius Almeida Vale and Jaqueline Coelho Visentin), *Journal of Economic Structures*, v. 9, n. 31, 2020.
- Interstate Input-Output Model for Mexico, 2013 (with Inácio Fernandes de Araújo, María Eugenia Ibararán, Roy Boyd, Alejandra Elizondo and Juan Carlos Belausteguigoitia), *Análisis Económico*, v. XXXV, n. 90, p. 7-43, 2020.
- Impacts of Royalties on Copper Miners in Chile (with Patricio Aroca, Lucas Dias and Sofia Arantes). *The Empirical Economics Letters*, v. 19, pp. 11-18, 2020.
- A Socioeconomic Analysis of Ride-Hailing Emergence and Expansion in São Paulo, Brazil (with Renato Schwambach Vieira, Miguel Stevanato Jacob, Ana Waksberg Guerrini, Eduardo Germani, Fernando Barreto, Miguel Luiz Bucalem and Pedro Levy Sayon), *Transportation Research Interdisciplinary Perspectives*, v. 1, 2019, DOI: 10.1016/j.trip.2019.100016
- Mobility in Cities: Distributional Impact Analysis of Transportation Improvement in São Paulo Metropolitan Region Regional (with Nancy Lozano-Gracia, Eduardo Germani, RenatoVieira, Shohei Nakamura, Emmanuel Skoufias and Bianca Alves), *Transport Policy*, v. 73, pp. 125-142, 2019
- Solar Smart Grid as a Path to Economic Inclusion and Adaptation to Climate Change in the Brazilian Semiarid Northeast (with Paulo Nobre, Enio Bueno Pereira, Francinete Francis Lacerda, Marcel Bursztyn and Debora Ley), *International Journal of Climate Change Strategies and Management*, v. 11, pp. 499-517, 2019
- Modelagem do Uso da Terra e Efeitos de Mudanças na Produtividade Agrícola entre 2008 e 2015 (with Weslem R. Faria), *Estudos Econômicos*, v. 49, n. 1, pp. 65-103, 2019
- Matriz Insumo-Producto Interregional para Colombia (with Luis Galvis, Weslem Faria and Lucas Hahn), *Revista de Economía del Caribe*, n. 21, pp. 1-26, 2018
- Modeling Land Use and the Effects of Climate Change in Brazil (with Weslem R. Faria), *Climate Change Economics*, v. 8, n. 1, 1750002 (37 pages), 2017
- From Rivers to Roads: Spatial Mismatch and Inequality of Opportunity in Urban Labor Markets of a Megacity (with Ana Maria Bonomi Barufi), *Habitat International*, v. 68, pp. 3-14, 2017
- Accessibility, Transportation Cost, and Regional Growth: A Case Study for Egypt (with Dina N. Elshahawany and Michael Lahr), *Middle East Development Journal*, v. 9, n. 2, pp. 256-277, 2017
- Scholarly Collaboration in Regional Science in Developing Countries: The Case of the Brazilian REAL Network (with Jesús Mena-Chalco and Otávio J. G. Sidone), *International Regional Science Review*, v. 40, n. 5, pp. 500-529, 2017
- Spatial Mismatch, Wages and Unemployment in Metropolitan Areas in Brazil (with Ana Maria Bonomi Barufi), *REGION*, v. 4, n. 3, pp.175-200, 2017
- Scholarly Publication and Collaboration in Brazil: The Role of Geography (with Otávio J. G. Sidone and Jesús Mena-Chalco), *Journal of the Association for Information Science and Technology*, v. 68, n. 1, pp. 243-258, 2017

- Produção Científica e Redes de Colaboração dos Docentes Vinculados aos Programas de Pós-Graduação em Economia no Brasil (with Jesús Mena-Chalco and Otávio J. G. Sidone), *Estudos Econômicos*, v. 47, n. 4, pp. 617-679, 2017
- Matriz Interestadual de Insumo-Produto para o Brasil: Uma Aplicação do Método IIOAS (with Gonçalves Júnior and Nascimento). *Revista Brasileira de Estudos Regionais e Urbanos (RBERU)*, v. 11, n. 4, pp. 424-446, 2017
- Industrial Scope of Agglomeration Economies in Brazil (with Ana Maria Bonomi Barufi and Peter Nijkamp), *Annals of Regional Science*, v. 56, n. 3, pp. 707-755, 2016
- Spatial Propagation of the Economic Impacts of Bombing: The Case of the 2006 War in Lebanon, (with Yasuhude Okuyama), *Review of Middle East Economics and Finance*, v. 12, n. 3, pp. 225-256, 2016
- Regional Analysis of Domestic Integration in Egypt (with Michael Lahr, Dina N. Elshahawany and Moises Vassallo), *Journal of Economic Structures*, 5:25, 2016
- A Ciência nas Regiões Brasileiras: Evolução da Produção e das Redes de Colaboração Científica (1992-2009) (with Otávio J. G. Sidone and Jesús Mena-Chalco), *Transinformação*, v. 28, n. 1, pp. 15-32, 2016
- Consumo de Energia Elétrica das Exportações Brasileiras: Uma Análise Sistêmica por Área de Concessão de Distribuição (with Maria Carolina Marques), *Pesquisa e Planejamento Econômico*, v. 46, n. 3, pp. 147-194, 2016
- Avaliação dos Impactos Espaciais do Sistema Viário Oeste – Bahia: Uma Abordagem a Partir da Modelagem de Equilíbrio Geral Computável (with Rodrigo Calabrich), *Revista Brasileira de Economia de Empresas*, v. 16, n. 2, pp. 25-47, 2016
- The Underground Economy: Tracking the Wider Impacts of the São Paulo Subway System (with Geoffrey J. D. Hewings, Alexandre A. Porsse, Eveline S. Van Leeuwen, and Renato S. Vieira), *Transportation Research Part A: Policy and Practice*, v. 73, pp. 18-30, 2015
- Economic Impacts of Natural Disasters in Megacities: The Case of Floods in São Paulo, Brazil (with Eliane Teixeira), *Habitat International*, v. 45, part 2, pp. 106-113, 2015
- Mobilidade, Acessibilidade e Produtividade em Sistemas Metropolitanos: Nota sobre a Valoração Econômica do Tempo de Viagem na Região Metropolitana de São Paulo (with Renato S. Vieira), *Revista de Economia Contemporânea*, v. 19, n. 3, pp. 343-365, 2015
- Economic Impacts of Natural Resources on a Regional Economy: The Case of the Pre-Salt Oil Discoveries in Espírito Santo, Brazil (with Ana Caroluina Giuberti), *Economy of Region, Russia*, v. 1, pp. 111-124, 2014
- Export Performance of Brazilian States to Mercosul and Non-Mercosul Partners (with Flávio V. Vieira and Carlos R. Azzoni), *Latin American Business Review*, v. 15, pp. 253-267, 2014
- Typology of Propagation of Technology and Social Preferences in the Process of Economic Development: An Input-Output Approach (with Weslem R. Faria and Joaquim J. M. Guilloto), *Journal of Economic Studies*, v. 41, pp. 569-585, 2014
- Spatial Perspectives of Increasing Freeness of Trade in Lebanon, *The Annals of Regional Science*, v. 53, n. 1, pp. 29-54, 2014
- Trade and Interdependence in Lebanon: An Interregional Input-Output Perspective, *Journal of Development and Economic Policies*, v. 16, pp. 5-45, 2014
- Climate Change in Lebanon: Higher-order Regional Impacts from Agriculture (with Nadim Farajalla, Marina Camargo, Ricardo L. Lopes and Flávio V. Vieira), *REGION*, v. 1, n. 1, pp. 9-24, 2014
- Mapping Potential Economic Losses from Flood Points in the Municipality of São Paulo, 2008-2012 (with Eliane Teixeira), *Ambiente & Sociedade*, v. 17, n. 4, pp. 77-94, 2014
- Mensuração dos Efeitos de Mudanças Climáticas na Bahia (with Weslem R. Faria), *Bahia Analise & Dados*, v. 24, pp. 25-38, 2014

- Domestic Tourism and Regional Inequality in Brazil (with Alexandre A. Porsse and Wilson Rabahy). *Tourism Economics*, v.19, pp. 173-186, 2013
- Regional Economic Impacts of Climate Anomalies in Brazil (with Alexandre A. Porsse and Paula C. Pereda). *Revista Brasileira de Estudos Regionais e Urbanos*, v. 7, n. 2, pp. 19-33, 2013
- Energy Policy and Regional Inequalities in the Brazilian Economy (with Gervásio F. dos Santos and Geoffrey J. D. Hewings). *Energy Economics*, v.36, pp. 241-255, 2012
- Fragmentação Geopolítica: Uma Análise Estrutural das Propostas de Separatismo no Brasil (with Amir B. Ferreira-Neto and Fernando S. Perobelli). *Economia Aplicada*, v.16, pp.531-566, 2012
- Infant Mortality in Brazil, 1980-2000: A Spatial Panel Data Analysis (with Ana M. Barufi and Antonio Paez). *BMC Public Health (Online)*, 12:181, 2012
- Assessing the Ex-ante Economic Impacts of Transportation Infrastructure Policies in Brazil (with Fernando S. Perobelli, Edson P. Domingues and Maurício Aguiar). *Journal of Development Effectiveness*, v.3, pp.44-61, 2011
- Regional Integration in Colombia: A Spatial CGE Application (with Ana M. Barufi and Silvio M Costa). *Scienze Regionali / Italian Journal of Regional Science*, v.10, pp. 5-30, 2011
- Estrutura de Interdependência Inter-regional no Brasil: Uma Análise Espacial de Insumo-Produto para o Período 1996 e 2002 (with Fernando S. Perobelli, G. P. Motta and R. A. Farinazzo). *Pesquisa e Planejamento Econômico*, v.40, pp.281-325, 2010
- Major Sport Events and Regional Development: The Case of the Rio de Janeiro 2016 Olympic Games (with Paulo R. Haddad). *Regional Science Policy and Practice*, v.2, pp.79-95, 2010
- Regional Effects of Port Infrastructure: A Spatial CGE Application to Brazil (with Geoffrey J. D. Hewings, Fernando S. Perobelli and Raul A. C. dos Santos). *International Regional Science Review*, v.33, pp.239-263, 2010
- Structural Interdependence Among Colombian Departments (with Fernando S. Perobelli, Jaime Bonet and Geoffrey J. D. Hewings). *Economic Systems Research*, v.22, pp.279-300, 2010
- Transport-Regional Equity Issue Revisited (with Eduardo S. de Almeida and Geoffrey J. D. Hewings). *Regional Studies*, v.44, pp.1387-1400, 2010
- Commodity Price Changes and Their Impacts on Poverty in Developing Countries: The Brazilian Case (with Carlos R. Azzoni, Joaquim J. M. Guilhoto, Fernando G. Silveira, Tatiane Menezes and Marcos Hasegawa). *Chiikigaku Kenkyu / Studies in Regional Science*, v.39, pp.131-147, 2009
- On The Effects of Scale Economies and Import Barriers on Brazilian Trade Performance and Growth: An Interstate CGE Analysis (with Lucas Ferraz). *Chiikigaku Kenkyu / Studies in Regional Science*, v.39, pp.53-65, 2009
- Handling Market Imperfections in a Spatial Economy: Some Experimental Results II (with Geoffrey J. D. Hewings). *Ensayos sobre Política Económica*, v.27, pp.142-193, 2009
- Spatial Aspects of Trade Liberalization in Colombia: A General Equilibrium Approach (with Jaime Bonet, Geoffrey J. D. Hewings and Fernando S. Perobelli). *Papers in Regional Science*, v.88, pp.699-732, 2009
- Avaliação dos Impactos Econômicos das Políticas de Infraestrutura de Transportes no Brasil: Uma Aplicação a duas Rodovias Federais em Minas Gerais (with Fernando S. Perobelli, Edson P. Domingues and Maurício Aguiar). *Cadernos BDMG*. v.16, pp.29-72, 2008
- Competição Tributária Regional no Brasil: Análise com um Modelo EGC Inter-regional (with Alexandre A. Porsse and Eduardo P. Ribeiro). *Pesquisa e Planejamento Econômico*, v.38, pp.351-387, 2008
- Efeitos Regionais da Política Monetária no Brasil: Impactos e Transbordamentos Espaciais (with Marinho Bertanha). *Revista Brasileira de Economia*, v.62, pp.3-29, 2008

- Integração de Modelos Econométrico e de Insumo-Produto para Previsões de Longo Prazo da Demanda de Energia no Brasil (with Rogério S. Mattos, Fernando S. Perobelli and Weslem R. Faria). *Estudos Econômicos*, v.38, pp.675-699, 2008
- Sensitivity Analysis in Applied General Equilibrium Models: An Empirical Assessment for MERCOSUR Free Trade Areas Agreements (with Edson P. Domingues and Geoffrey J. D. Hewings). *The Quarterly Review of Economics and Finance*, v.48, pp.287-306, 2008
- Analytically Important Transportation Links: A Field of Influence Approach to CGE Models (with Geoffrey J. D. Hewings). *Revista Brasileira de Estudos Regionais e Urbanos*, v.1, pp.63-84, 2007
- Building-up Influence: Post-war Industrialization in the State of Minas Gerais, Brazil (with Geoffrey J. D. Hewings, Fernanda L. L. Leon and Raul C. Santos). *Brazilian Journal of Political Economy*, v.27, pp.281-300, 2007
- Uma Análise de Insumo-Produto da Distribuição Interestadual da Renda no Brasil (with Raul A. C. dos Santos). *Economia*, v.8, pp.121-138, 2007
- Economic Effects of Regional Tax Incentives: A General Equilibrium Approach (with Alexandre A. Porsse and Eduardo P. Ribeiro). *Latin American Business Review*, v.7, pp. 195-216, 2007
- Fiscal Incentive and Regional Development Projects: Mercedes-Benz at Juiz de Fora (MG) – Brazil 1996/1999 (with Fernando S. Perobelli, Suzana Bastos and Edgard A. Pimentel). *Latin American Business Review*, v.7, pp. 46-75, 2007
- Structural Change in the Brazilian Automotive Industry and its Regional Impacts (with Edmund Amann, Fernando S. Perobelli and Joaquim J. M. Guilhoto). *Latin American Business Review*, v.7, pp. 97-119, 2007
- Complementaridade e Competição Regional: Uma Proposta Metodológica de Desagregação Espacial de Projeções Nacionais (with Alexandre S. Andrade, Edgar A. Pitoli and Fernando S. Postali). *Revista Econômica do Nordeste*, v.37, pp. 329-338, 2006
- Exportações Internacionais e Interações Regionais: Uma Análise de Equilíbrio Geral (with Fernando S. Perobelli). *Estudos Econômicos*, v.36, pp.833-866, 2006
- Impactos Setoriais e Regionais da ALCA: Projeções para a Economia Brasileira (with Edson P. Domingues). *Pesquisa e Planejamento Econômico*, v.36, p.255-287, 2006
- Interdependência entre os Estados Brasileiros: Uma Análise de Insumo-Produto (with Fernando S. Perobelli and Edson P. Domingues). *Economia*, v.7, pp.123-142, 2006
- Padrões de Comércio Interestadual no Brasil, 1985 e 1997 (with Fernando S. Perobelli). *Revista de Economia Contemporânea*, v.10, pp.61-88, 2006
- Transporte, Eficiência e Desigualdade Regional: Avaliação com um Modelo CGE para o Brasil. *Pesquisa e Planejamento Econômico*, v.36, pp.413-448, 2006
- Brazil-Argentina Trade and its Impacts on Brazilian States (with Edson P. Domingues and Fernando S. Perobelli). *Investigaciones Regionales*, v.7, pp.113-137, 2005
- Inserção Econômica de Minas Gerais: Uma Análise Estrutural (with Fernando S. Perobelli and Raul A. C. dos Santos). *Nova Economia*, v.15, pp.63-90, 2005
- Market Imperfections in a Spatial Economy: Some Experimental Results (with Geoffrey J. D. Hewings). *The Quarterly Review of Economics and Finance*, v.45, pp.476-496, 2005
- Mercado Imobiliário e Amenidades: A View Through the Window (with Bruno Hermann). *Estudos Econômicos*, v.35, pp.237-269, 2005
- Regional Absorption of Terms of Trade Shocks (with Fernando S. Perobelli). *Ensaio FEE*, v.26, pp. 729-754, 2005
- Sensitivity Analysis in Computable General Equilibrium Models: An Application for the Regional Effects of the Free Trade Area of the Americas (FTAA) (with Edson P. Domingues). *Brazilian Review of Econometrics*, v.25, pp. 115-137, 2005



- The Spatial Pattern of Crime in Minas Gerais: An Exploratory Analysis (with Eduardo S. de Almeida and Geoffrey G. D. Hewings). *Revista de Economia Aplicada*, v.9, pp. 1-17, 2005
- Impactos Econômicos do Grande Prêmio Brasil de Fórmula 1 (with Decio Kadota and Wilson Rabahy). *Turismo em Análise*, v.15, pp. 228-249, 2004
- Interdependência Espacial das Exportações Brasileiras: Repercussões sobre o Mercado de Trabalho (with José P. Chahad and Antonio E. Comune). *Pesquisa e Planejamento Econômico*, v.31, pp. 93-122, 2004
- MEECA: Um Modelo Econométrico Espacial para Projeção Consistente de Culturas Agropecuárias (with Eduardo S. de Almeida). *Revista de Economia e Sociologia Rural*, v.42, pp.507-527, 2004
- Política Tributária e Re-localização (with Edson P. Domingues). *Revista Brasileira de Economia*, v.57, pp. 849-871, 2003
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### *Working Papers*

Regional Science Meets the Past: What Do Coin Finds Tell Us About the Ancient Spatial Economy? (with Inácio Araújo)

Modeling the Impacts of Government Interventions During Crises: Lessons from Greece (with Natália Cotarelli and Vinicius Vale)

Optimal Road Network and the Gains from Intranational Trade (with Lucas Dias and Andrés Maggi)

Analysis of Economic and Environmental Impacts of Shutting Down the Moroccan Refinery Samir: An Interregional Input-Output Approach (with Araújo, Chawki, El-Mansoum and Masnaoui)

The Impact of COVID-19 in Morocco: Macroeconomic, Sectoral and Regional Effects (with Karim El-Aynaoui, Abdelaaziz Ait-Ali, Mahmoud Arbouch and Inácio Araújo)

As Três Grandes Universidades Públicas Paulistas Valem o que Custam? (with Carlos Azzoni and Moisés Vassallo)

Formação, Endogenia e Influência Institucional na Academia Brasileira: Uma Análise da Absorção de Doutores nas Instituições de Ensino Superior (with Rafael J. P. Damaceno and Jesús P. Mena-Chalco)

A Practitioner's Guide for Building the Interregional Input-Output System for Morocco, 2013 (with Fatna El-Hattab and Abdelaaziz Ait Ali)

The Impact of Productivity Growth in China on the Brazilian Economy (with Andrés Maggi)

Avaliação dos Impactos Econômicos de Investimentos em Rodovias sob Diferentes Alternativas de Financiamento (with Tales Rozenfeld)

Economic Effects of Exploiting Energy Efficiency and Renewable Potentials in Austrian Climate and Energy Model Regions (with Claudia Kettner, Oliver Fritz, Angela Köppl and Alexandre Porsse)

Target Fitting and Robustness Analysis in CGE Models (with Gabriel Garber)

Should I Stay or Should I Go? Selection on Migration and Learning in Cities of Brazil (with Ana Barufi and Peter Nijkamp)

#### *HONORS AND AWARDS*

Opening Lecture of the Graduate Program in Economics, Universidade Federal da Paraíba, Brazil, 2023

Profesor Visitante de la Facultad de Ciencias Agrarias de la Universidad Nacional de Asunción (Resolución n. 127-00-2023), Paraguay, 2023

Opening Lecture of the Graduate Program in Economics, Universidade Federal do Paraná, Brazil, 2022

Graduate-Student-Led Paper Competition, North American Regional Science Council (NARSC), 2020

George Edward Schuh Prize – First Place – Best Master Thesis in Rural Economics (advisor), Brazilian Society of Rural Economics, Management and Sociology (SOBER), 2019

Department Award for “Best Professor” (honorable mention award), ranked by undergraduate students, 2019, 2020, 2021

Department Award for “Best Professor” (first prize), ranked by undergraduate students, 2018

ECOPAR Award – First Place (Growth and Economic Development), 2017

“Modeler of the Month”, EcoMod Network, July 2014

Edson Potsch Magalhães Prize – First Place – Best Doctoral Dissertation in Agricultural Economics (advisor), Brazilian Society of Rural Economics, Management and Sociology (SOBER), 2013

Opening Lecture of the Graduate Program in Economics, Universidade Federal Juiz de Fora, Brazil, 2013

ABER Award for outstanding service to the Brazilian Regional Science Association, 2012

Member of the academic delegation that visited the Baabda Presidential Palace to meet the General Michel Sleiman, President of the Lebanese Republic, April 3rd, 2012

CAPES Thesis Award 2011 – Honorable Mention (advisor), Brazilian Ministry of Education, 2012

Opening Lecture of the Graduate Program in Economics, Universidade Federal do Rio Grande do Norte, Brazil, 2011

Congratulation votes from the City Hall of Natal, Brazil, 2011

BNDES Economy Award 2010 – First Place – Best Doctoral Thesis (advisor), Brazilian Development Bank (BNDES), 2011

Opening Lecture of the Graduate Program in Population Studies and Social Research, Escola Nacional de Ciências Estatísticas – ENCE, Rio de Janeiro, Brazil, 2009

Leontief Memorial Prize – Finalist (Third Place), International Input-Output Association (IIOA), 2009

Banco de la Republica Award, Banco de la República, Bogotá, Colombia, 2008

XIX Minas Gerais Prize in Economics, Professional Category – First Place, Minas Gerais Development Bank, 2007

Medal of Merit “Mauá”, Brazilian Ministry of Transportation, 2006

X National Treasury Award – Second Place, National Treasury, 2005



Epainos Award for Young Regional Scientists – Second Prize, European Regional Science Association, 2001

Publication Award – Incentive to the Academic Production Program at FEA, University of São Paulo (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022)

II Banco do Nordeste Prize in Regional Economics – First Place, Banco do Nordeste, 1998

VIII Minas Gerais Prize in Economics, Professional Category – First Place, Minas Gerais Development Bank, 1995

VI Minas Gerais Prize in Economics, Undergraduate Student Category – Third Place, Minas Gerais Development Bank, 1993

### *GRANTS*

Brazilian Research Council (CNPq) Research Projects – Call 59/2022 – Line 3, Principal Investigator, 2023-2027 (Grant # 406105/2022-7)

Brazilian Research Council (CNPq) Productivity Grant 2023-2027 (CNPq # 01684/2022-7)

Brazilian Research Council (CNPq) Research Projects – Call 23/2020 – Line 2, Co-Principal Investigator, 2021-2022 (Grant # 441285/2020-1)

Ministry of Science and Technology – Agency for Project Financing (FINEP), “Health, Economy and Climate Facing COVID-19 in Brazil: Socioeconomic Impacts and the Role of Mitigation of GHG Emissions in the Economic Recovery” (Rede Virus – MCTIC), Principal Investigator, 2020-2021 (Grant # 0489/20)

Brazilian Research Council (CNPq) Productivity Grant 2019-2023 (CNPq # 302861/2018-1)

São Paulo Research Foundation (FAPESP) Research Projects – Research Collaboration Agreement between FAPESP, Brazil, and the National Commission for Scientific and Technological Research (CONICYT), Chile, Principal Investigator, 2018-2022 (Grant # 2018/08337-8)

São Paulo Research Foundation (FAPESP) Research Projects – Thematic Grant, Co-Principal Investigator, 2017-2023 (Grant # 14/50848-9)

São Paulo Research Foundation (FAPESP) Research Grants – Organization of Scientific Meeting, Principal Investigator, 2017 (Grant # 17/16866-8)

São Paulo Research Foundation (FAPESP) Scholarships abroad – Research, January 01, 2015 - June 30, 2015 (Grant # 14/25030-2)

Brazilian Research Council (CNPq) Productivity Grant 2015-2018 (CNPq # 305137/2014-0)

Byrne Seminar Stipend – Fall 2014, Rutgers University (#662535)

Brazilian Research Council (CNPq) Post-Doctoral Fellowship, January 01, 2014 - December 31, 2014 (CNPq # 229256/2013-9)

São Paulo Research Foundation (FAPESP) Research Projects – Regular Grant, Principal Investigator, 2013-2015 (Grant # 2013/00894-1)

Brazilian Research Council (CNPq) Research Grant, Principal Investigator, 2012-2014 (CNPq # 405032/2012-9)

Brazilian Research Council (CNPq) Productivity Grant 2011-2015 (CNPq # 300287/2010-0)

São Paulo Research Foundation (FAPESP) Visiting Researcher Grant – International, 2011 (Grant #10/17952-6)

São Paulo Research Foundation (FAPESP) Research Projects – Thematic Grant, Co-Principal Investigator, 2007-2010 (Grant # 06/03104-8)

Brazilian Research Council (CNPq) Productivity Grant 2008-2011 (CNPq # 301271/2007-0)  
 São Paulo Research Foundation (FAPESP) Travel Grant 2007 (Grant # 2007/02996-5)  
 Brazilian Research Council (CNPq) Productivity Grant 2005-2008 (CNPq # 303499/2004-4)  
 São Paulo Research Foundation (FAPESP) Travel Grant 2005 (Grant # 2005/00737-7)  
 São Paulo Research Foundation (FAPESP) Research Projects – Regular Grant, Principal Investigator, 2004-2006 (Grant # 04/09792-8)  
 Brazilian Research Council (CNPq) Productivity Grant 2003-2005 (CNPq # 302474/2002-1)  
 São Paulo Research Foundation (FAPESP) Travel Grant 2003 (Grant # 2003/02883-5)  
 Brazilian Research Council (CNPq) Productivity Grant 2001-2003 (CNPq # 300768/00-1(NV))  
 São Paulo Research Foundation (FAPESP) Travel Grant 2001 (Grant # 2001/06204-0)  
 Graduate College Conference Travel Grant, University of Illinois at Urbana-Champaign, USA, 1997  
 Graduate College Thesis Project Grant, University of Illinois at Urbana-Champaign, USA, 1996  
 Brazilian Research Council (CNPq) Doctoral Fellowship 1995-1998 (CNPq # 200105/95-7(RN))  
 Brazilian Research Council (CNPq) Undergraduate Research Scholarship 1992-1993

### *PROFESSIONAL ACTIVITIES*

#### *Referee, Reviewer and Evaluator*

*Referee for:* Journal of Regional Science, Regional Studies, Economic Systems Research, The Annals of Regional Science, Papers in Regional Science, International Regional Science Review, Letters in Spatial and Resource Sciences, Regional Science Policy and Practice, Pesquisa e Planejamento Econômico, Estudos Econômicos, Revista Brasileira de Inovação, Economia Aplicada, Nova Economia, Revista Brasileira de Economia, Revista de Economia e Sociologia Rural, International Journal of Urban Sciences, Spatial Economic Analysis

*Grant reviewer for:* Foundation for the Improvement of Higher Education – Brazilian Ministry of Education (CAPES), Brazilian National Council for Research and Technological Development (CNPq), São Paulo Research Foundation (FAPESP), Minas Gerais Research Foundation (FAPEMIG)

*Prize committee member for:* 2019-2022 ERSAP Prize in Regional Science, 2021-2022 Hirota Kohn Award for Outstanding Service to the RSAI (Chair), 2018 NARSC Graduate Student Paper Competition, 2018-2022 Paulo Haddad Prize – Student Paper Competition, 2011 NARSC Graduate Student Paper Competition, 25th BNDES Prize in Economics, 5th Banco do Nordeste Prize in Regional Economics, 2000 Haralambos Simeonidis Prize (National Award for Best Paper by Economists in Brazil)

*Evaluator for:* Member of the Steering Committee of the EMSURE Project (Energy and Mobility for Sustainable Regions) – QREN Program, Portugal (2013-2015), External Evaluator of the Graduate Program in Economics at the Universidade Federal de Juiz de Fora (2012); Member of the Commission for the Evaluation of the Graduate Programs in Economics in Brazil, CAPES, Ministry of Education (2010)

#### *Doctoral Advising*

Edson Paulo Domingues, USP (2002)

Eduardo Simões de Almeida, USP (2003)

Fernando Salgueiro Perobelli, USP (2004)  
Alexandre Alves Porsse, UFRGS (2005; co-advisor)  
Joilson Dias, USP (2009; post-doctoral)  
Lucas Pedreira do Couto Ferraz, EPGE-FGV (2010; co-advisor)  
Gervásio Ferreira dos Santos, USP (2010)  
Weslem Rodrigues de Farias, USP (2012)  
Moisés Diniz Vassalo, USP (2015)  
Ana Maria Bonomi Barufi, USP (2015)  
Michael Tulio Ramos de França, USP (2020)  
Celso Vilella Chaves Campos, FEARP-USP (2020; co-advisor)  
Karina Simone Sass, USP (2022)  
Ademir Antônio Moreira Rocha, USP (2022)  
Alan Marques Miranda Leal, USP (current)  
Inácio Fernandes de Araújo Junior, USP (current; post-doctoral)  
Mahmoud Arbouch, UM6P (current)

*Master Advising*

Priscila Pereira Deliberalli, USP (2002)  
Allexandro Emmanuel Mori Coelho, USP (2002)  
Bruno Hermann, USP (2003)  
Adriane Carine Bezerra de Melo da Silveira, USP (2005)  
Raul Antonio Cristóvão dos Santos, USP (2007)  
Pedro Silva Scazufca, USP (2008)  
Ana Maria Bonomi Barufi, USP (2010)  
Eduardo Colagrossi Paes Barbosa, USP (2011)  
Daniel da Silva Grimaldi, USP (2011)  
Maria Carolina Correia Marques, USP (2012)  
Eliane Teixeira dos Santos, USP (2013)  
Otávio José Guerci Sidone, USP (2013)  
Lucas Squarize Chagas, USP (2014)  
Rodrigo Calabrich Campos, USP (2015)  
Tales Rozenfeld, USP (2016)  
Thiago Nascimento, USP (2017)  
Bruno Santos de Souza, USP (2018)  
Bruno Proença Pacheco Pimenta, USP (2020)  
Raphael Pinto Fernandes, USP (2020)  
Lucas Cardoso Correa Dias, USP (2020)

Pedro Levy Sayon, USP (2021)  
Elhoussaine Wahyana, UM6P (2022)  
Ilham Najib, UM6P (2023)  
João Pedro Saldanha Correa, USP (current)

### *Graduate Teaching*

Regional Science Methods (Fall 1997), Teaching Assistant, UIUC  
Latin American Economic Development (Spring 1996-1997), Teaching Assistant, UIUC  
Regional Economics (2001-2002), Universidade de São Paulo  
Thesis Research (2002-2005), Universidade de São Paulo  
Applied General Equilibrium Models (1999-2000, 2003, 2005-2013, 2015-2022), Universidade de São Paulo  
Regional Economic Methods (Spring 2014), Rutgers University  
Climate Change and its Interdisciplinarity – Economics (2016), Universidade de São Paulo  
Regional Policy-Making and Analysis (2020-2023), Mohammed VI Polytechnic University  
Input-Output Analysis (2023), Universidade de São Paulo

### *Undergraduate Teaching*

Intermediate Macroeconomics (Fall 1993), Teaching Assistant, UIUC  
Project Appraisal (2001), Universidade de São Paulo  
Regional and Urban Economics (1999-2013, 2015-2023), Universidade de São Paulo  
Social Accounting (2009), Universidade de São Paulo  
Undergraduate Thesis (2004-2013, 2015-2022), Universidade de São Paulo  
Let the Games Begin: The Socio-Economic Effects of Mega-Events in Sports – Byrne Seminar (Fall 2014), Rutgers University

### *Affiliations*

American Economic Association, AEA  
Regional Science Association International, RSAI  
Brazilian Regional Science Association, ABER (founding member)  
International Input-Output Association, IIOA  
American Numismatic Society (2021-2023)  
American Association of Wine Economists (2018-2020)  
Brazilian Econometric Society, SBE  
Life-Member of the University of Illinois Alumni Association  
University of Oxford Alumni Community

University of Leicester Alumni Association  
Founding Member of the Regional Science Academy  
Regional Council of Economics, São Paulo, CORECON-SP

*CONFERENCES*

*Keynote Lectures*

Conference on Rethinking the Regional Development Opportunities and Challenges in Southern Africa, Harare, Zimbabwe, 2023

1st International Conference on Sustainable Regional Development in Central Asia, Almaty, Kazakhstan, 2023

1st International Conference on Cities and Territories in the Developing World Facing the Challenges of Ecological and Digital Transitions, Hammamet, Tunisia, 2023

27° Encuentro Nacional sobre Desarrollo Regional en México, AMECIDER 2022, Conferencia Magistral (15 de noviembre de 2022), Asociación Mexicana de Ciencias para el Desarrollo Regional, Tijuana, México, 2022 (online)

International Conference & 52nd Annual Meet of Regional Science Association, India, Co-hosted by Institute of Development Studies Kolkata in collaboration with Regional Science Policy and Practice, Kolkata, India, 2021 (online)

XIII Encuentro Nacional de la Asociación Colombiana de Estudios Regionales y Urbanos – ASCER, Colombia, 2021 (online)

XXX Seminario de Economía Urbana y Regional, Conferencia Magistral, “La recuperación urbano-regional en una escala global: escenarios económicos ante una eventual salida a la pandemia por la COVID-19”, Universidad Nacional Autónoma de México, 2021 (online)

13th International Conference of the Romanian Regional Science Association, Bucharest University of Economic Studies, Romania, 2021 (online)

27° Congresso da Associação Portuguesa para o Desenvolvimento Regional, Angra do Heroísmo, Portugal, 2020 (online)

25° Encuentro Nacional sobre Desarrollo Regional en México, AMECIDER 2020, Conferencia Magistral de Inauguración (16 de noviembre de 2020), Asociación Mexicana de Ciencias para el Desarrollo Regional, Chihuahua, México, 2020 (online)

Brazil Week at Leiden, “Trends of Regional Economic Development in Brazil and Latin America: Analyzing Potential Trade-offs”, Leiden, Netherlands, 2019

VIII Conferencia Anual Internacional, Sociedad Argentina de Economía Regional (SAER) and IIEP – UBA (Instituto Interdisciplinario de Economía Política – Universidad de Buenos Aires), Buenos Aires, Argentina, 2019

III Encontro de Economia Aplicada de Sergipe, Aracajú, Brazil, 2019

International Conference on Policy Modeling – EcoMod 2019, Plenary Session, Ponta Delgada, Portugal, 2019

Conference: “Desafios da Educação para o Desenvolvimento de Infraestruturas, Governação e Sustentabilidade Ambiental nos Países em Desenvolvimento”, ISCED, Huambo, Angola, 2019

Workshop “Infraestructuras de América del Sur y Desarrollo Regional Sostenible”, Cochabamba, Bolivia, 2019

2<sup>nd</sup> AMSR International Congress “Ambition of Sustainability in the Context of Territorial Complexity and the Society of Risks”, Rabat, Morocco, 2017

Workshop on “Assessment Methodologies – Energy, Mobility and Other Real World Applications”, Coimbra, Portugal, 2015

III Congreso Internacional de Desarrollo Local, La Habana, Cuba, 2013

6th Meeting of the Colombian Regional Science Association – ASCER, Barranquilla, Colombia, 2013

19th APDR Congress “Place-based policies and Economic Recovery”, Braga, Portugal, 2013

1st Austrian-Brazilian Workshop on Applied Economic Modeling, Vienna, Austria, 2012

1st Forum on Applied Economics, Salvador, Brazil, 2012

9th ECOPAR – *Encontro de Economia Paranaense*, Londrina, Brazil, 2012

Workshop “Urban Economics and Regional Science”, Loja, Ecuador, 2010

Workshop on “Operational Models in Regional Science”, Azores, Portugal, 2010

11th PRSCO Summer Institute, Cali, Colombia, 2010

17th International Input-Output Conference, São Paulo, Brazil, 2009

2nd Meeting of the Colombian Regional Science Association – ASCER, Bogotá, Colombia, 2009

10th Brazilian Economic Association Meeting (Chapter South), Porto Alegre, Brazil, 2007

7th Brazilian Economic Association Meeting (Chapter South), Maringá, Brazil, 2004

10th Seminar on the Brazilian Economy, Toledo, Brazil, 2000

4th Regional Economics Meeting of the Brazilian Economic Association, Fortaleza, Brazil, 1999

### *Invited Presentations*

Presentation on “Multisectoral and Multi-Regional Economic Modelling” Faculty of Economics, Business, and Tourism (FEBT) Summer School, Split, Croatia, 2023

Roundtable “The Colombian Economy and its Regional Structural Challenges: A Linkages Approach”, Universidad Tecnológica de Bolívar, Cartagena, Colombia, 2023

Presentation on “Tool kits in multi-regional and multi-sectoral general equilibrium modeling for Paraguay”, Facultad de Ciencias Agrarias, Universidad Nacional de Asunción, Campus San Lorenzo, Paraguay, 2023

8th Central European Conference in Regional Science (CERS), “Resilience of cities and regions in an uncertain time”, 21-23 November 2022, Adam Mickiewicz University, Poznań, Poland, 2022 (online)

Roundtable “Avances y retos de los estudios regionales y urbanos en Colombia”, Seminario 25 años del CEER, Cartagena de Indias, Colombia, 2022

Roundtable “Is it worth publishing in a national journal? Comparing national experiences, XLIII Conferenza Scientifica Annuale, Associazione Italiana di Scienze Regionali, Milano, Italy, 2022

Presentation on “General Equilibrium Models in Disaster Impact Analysis”, Comisión Nacional de Prevención de Riesgos y Atención de Emergencias – Desarrollo Estratégico del SNGR, San José, Costa Rica, 2022

Presentation on “Regional Science Applications in the Developing World”, RSAI Workshop on Human Resources and Regional Development: Theories and Applications University of Ghana, Accra, Ghana, 2022

Presentation on “The Internal Geography of Services Value-Added in Exports: A Latin America Perspective”, First Global Regional Development Conference, Sustainable Regional Development,

- Digital City Resilience and Successful Local Leadership, Shenzhen, Greater Bay Area, China, 2021 (online)
- Presentation on “Crisis Monitor: Using High-Frequency Traffic Data in a Trade-Based Regional Economic Activity Index”, RSPP Workshop Pandemics, Location and Mobility, Ponta Delgada, Azores, Portugal, 2021
- Presentation on “The COVID-19 Crisis and the Geography of Discontents in the Global South”, *Ciclo ILP-FAPESP – As Cidades Pós-Pandemia*, São Paulo, Brazil, 2021 (online)
- Presentation on “The COVID-19 Crisis and the Geography of Discontents in the Global South”, Atlantic Currents Report: Chapters on Geopolitics & International Relations, 7th edition, Policy Center for the New South, Rabat, Morocco, 2021 (online)
- Presentation on “Impact de la Crise à l’Échelle Territoriale”, Impacts de la Crise Covid-19 sur l’Economie Marocaine: Regards Croisés du Policy Center for the New South et de la Direction des Etudes et des Provisions Financières, Policy Center for the New South, Rabat, Morocco, 2021 (online)
- Moderator, UN75: Are Development Challenges Really Intractable? Policy Center for the New South, Rabat, Morocco, 2020 (online)
- Moderator, AD Talks 2020, The Role of ICT in the Management of Global Crises, Policy Center for the New South, Rabat, Morocco, 2020 (online)
- Presentation on “Crisis Monitor: Using High-Frequency Traffic Data in a Trade-Based Regional Economic Activity Index”, Current Trends in Regional/Urban Resilience and Sustainable Development, International Workshop organized by the Bucharest University of Economic Studies team in collaboration with The Regional Science Academy, Romania, 2020 (online)
- Presentation on “Crisis Control: The Use of Simulations for Policy Decision-Making”, Ciclo de Charlas Virtuales: El COVID-19 en América, Universidad Maimónides, Argentina, 2020 (online)
- Presentation on “Assessment of the São Paulo Plan”, Café On-Line – O Impacto da COVID-19 nas Economias dos Estados, Passos para a sua Recuperação no Contexto Nacional, Regional e Internacional, Instituto Superior Politécnico da Caála, Angola, 2020 (online)
- Presentation on “Assessing the Economic Impacts of Lockdown Measures in Morocco”, Senior Fellow Webinar, Policy Center for the New South, Rabat, Morocco, 2020 (online)
- Presentation on “Economic Costs of COVID-19”, Observatório Econômico na Pandemia COVID-19 Universidade Federal da Bahia, Salvador, Brazil, 2020 (online)
- Presentation on “Economic Impacts of COVID-19”, USP Talks, São Paulo, Brazil, 2020 (online)
- Presentation on “Launch of Methodology: Measuring Services Value-Added in Developing Countries”, International Meeting on Services Value-Added in Exports: Services and Trade Policies for Diversification and Upgrading, UNCTAD, Brasilia, Brazil, 2019
- Presentation on “Application of Methodology: Measuring Services Value-Added in Brazil”, International Meeting on Services Value-Added in Exports: Services and Trade Policies for Diversification and Upgrading, UNCTAD, Brasilia, Brazil, 2019
- Presentation on “The Economics of Urban Mobility”, Leiden Brazilian Week Guest Lecture, Data Science Research Programme and LIACS, Leiden, Netherlands, 2019
- Presentation on “A Weighted Travel Time Index Based on Data From E-Hailing Trips: An Application for São Paulo, Brazil”, Workshop Smart Safe and Sound Cities, ‘s-Hertogenbosch, Netherlands, 2019
- Presentation on “The Internal Geography of Services Value-Added in Exports: A Latin America Perspective”, The New International Scenario and Brazil’s Foreign Policy, PCNS-CINDES, Rio de Janeiro, Brazil, 2019
- Presentation on “Tool Kits in Multi-regional and Multi-sectoral General Equilibrium Modeling for Chile”, International Workshop on General Equilibrium Modeling: Applications for the Chilean Economy, Viña del Mar, Chile, 2018

- Presentation on “Impacts of Urban Mobility Apps in Cities”, Centro Ruth Cardoso, São Paulo, 2018
- Presentation on “Impact Assessment of Scenarios of Interregional Transfers in Colombia”, VII Jornada Iberoamericana de Financiación Local, Cartagena de Indias, Colombia, 2018
- Presentation on “The University of Sao Paulo Regional and Urban Economics Lab – NEREUS”, *Main Schools of Regional Science*, 12th World Congress of the RSAI, Goa, India, 2018
- Presentation on “Water Content in Trade: A Regional Analysis for Morocco”, Secrétariat d'Etat Chargé de l'Eau, Rabat, Morocco, 2018
- Presentation on “Solar Smart Grid as a Path to Economic Inclusion and Adaptation to Climate Change in the Brazilian Semiarid Northeast”, The Regional Science Academy, Advanced Brainstorm Carrefour (ABC) on Intelligent Spatial Policy in a Digital World, Conventinho de Arrábida, Portugal, 2018
- Presentation on “The Grand Tour: Keynes and Goodwin go to Greece”, Seminar: From Regional Science to Territorial Medicine, Lisbon School of Economics and Management, Lisbon, Portugal, 2018
- International Conference in Honor of Werner Baer: “Economic Development from the Periphery: The Nexus between Past, Present and Future”, Quito, Ecuador, 2017
- Presentation on “Trends of Territorial Economic Development in Latin America: Analyzing Potential Trade-offs”, The Regional Science Academy Series Lectures, Stellenbosch, South Africa, 2017
- Presentation on “What Can We Learn from *Ex Ante* Impact Assessment?”, COMCEC Special Session Economic Impacts of Transnational Transport Corridors, Istanbul, Turkey, 2017
- Presentation on “Can Africa Capitalize on its Natural Resources? Implications for Territorial Development and Social Cohesion”, 6th edition of The Atlantic Dialogues, Marrakesh, Morocco, 2017
- Presentation on “Regional Science and the Challenges for Economic Development in the Developing World”, The Regional Science Academy, Special Academic Session (SAS), Vancouver, Canada, 2017
- Presentation on “Structural Indicators of Moroccan Regions: An Interregional Input-Output Approach”, Ministère de l'Économie et Finances, Rabat, Morocco, 2017
- Presentation on “Urban Mobility and Greenhouses Gases Emissions in the SPMR”, São Paulo City Hall, São Paulo, Brazil, 2017
- Presentation on “The Brazilian Branch of Professor Werner Baer’s Academic Genealogy”, Professor Werner Baer Conference, University of Illinois at Urbana-Champaign, USA, 2016
- E Agora, Werner?* – Seminar in Honor of Prof. Werner Baer, Federal Senate, Brasília, 2016
- Presentation on “Interface between Science and Public Policies in Climate Change”, International Conference of the National Institute of Science and Technology for Climate Change, São Paulo, 2016
- Presentation on “The Economics of Urban Mobility”, Workshop on *Challenges for Urban Mobility*, Federation of Industries of the State of São Paulo (FIESP), São Paulo, SP, 2016
- Presentation on “The Economics of Climate Change: Insights from Integrated Assessment Modeling Experiences for Lebanon and Brazil”, OCP Policy Center, Rabat, Morocco, 2016
- Presentation on “Urban Mobility in São Paulo”, Workshop *CORS IN FOCUS*, Universidade de São Paulo, São Paulo, 2015
- Lecture on “Urban Mobility”, Sindicato dos Engenheiros no Estado de São Paulo – SEESP, São Paulo, 2015
- Panel discussion on “Costs of Immobility”, organized by Associação dos Engenheiros e Arquitetos de Metrô – AEAMESP, 21<sup>a</sup>. *Semana de Tecnologia Metroviária*, São Paulo, 2015
- International Tinbergen Institute Workshop 2015, “The Future of Spatial Equality and Quality: New Contributions to the Analysis of Human, Social, Entrepreneurial, Creative and Environmental Capital”, Amsterdam, Netherlands, 2015



- Panel discussion on the “Economics of Climate Change: The Cost of Doing Nothing”, organized by the Climate Change and Environment in the Arab World Program at the Issam Fares Institute for Public Policy and International Affairs (IFI) at the American University of Beirut (AUB), Beirut, Lebanon, 2015
- Presentation on “Regional Analysis of Domestic Integration in Egypt” at the Central Agency for Public Mobilization and Statistics (CAPMAS) from the Arab Republic of Egypt, Cairo, Egypt, 2015
- “Integrated Assessment Modeling Workshop”, Climate Futures Initiative, Princeton University, USA, 2014
- International Workshop “Growth without Infrastructure? A Challenging Scenario for Brazil and Other Emerging Countries”, São Paulo, 2013
- 1st National Conference on Climate Change – CONCLIMA, São Paulo, 2013
- International Tinbergen Institute Workshop 2013, “Dynamics in the ‘New Urban World’: Creativity, Culture, Economy and Governance”, Amsterdam, Netherlands, 2013
- International Scientific Workshop “Future Challenges of the New Urban World: What model of Development for the Moroccan City?”, Rabat, Morocco, 2012
- III Seminario “Estrategias de Desarrollo”, Montevideo, Uruguay, 2012
- IPCC WG II & III Joint Meeting on New Socio-economic Pathways for Climate Change Research, The Hague, Netherlands, 2012 (invited expert)
- The World Bank Dissemination Workshop “Using Lebanon’s Large Capital Inflows to Foster Sustainable Long-Term Growth”, Beirut, Lebanon, 2012 (invited participant)
- Seminario “Modelos Hidroclimáticos y Escenarios para la Adaptación”, São José dos Campos, Brazil, 2012
- IPCC WG II AR5 South and Central America Regional Expert Meeting, São José dos Campos, Brazil, 2011 (invited expert)
- Inter-American Development Bank Tourism for Development Workshop, Washington D.C., USA, 2010
- International Workshop on Evaluating Infrastructure, Copenhagen, Denmark, 2010
- 11th Economics Workshop at FEA-RP/USP, Ribeirão Preto, Brazil, 2010
- 6th Meeting “PRODETUR Nacional” – Tourism and Development, São Paulo, Brazil, 2010
- VI ELSNIT Conference, Kiel, Germany, 2009
- 12th Annual Conference on Global Economic Analysis, Santiago, Chile, 2009
- International Workshop “The Study of Regional Science in Brazil and in the World”, EESP-FGV, São Paulo, Brazil, 2008
- VI ELSNIT Conference, Florence, Italy, 2008
- V Seminario de la Revista Ensayos sobre Política Económica – Economía Regional y Urbana, Bogotá, Colombia, 2008
- Conference “Brazil: President Lula’s First Administration”, Urbana, USA, 2007
- International Policy Workshop “Spatial Disparities and Development Policy” in preparation for the World Development Report 2009, Berlin, Germany, 2007
- Conference “Brazil: President Lula’s First Administration”, Urbana, USA, 2007
- Economy and Society in Space: An International Workshop in Honor of Professor Michael Sonis, Tel Aviv, Israel, 2006
- Conference on “Regulation, Competition and Income Distribution: Latin American Experiences”, Paraty, Brazil, 2005
- Workshop “The State of the Art in Regional Modeling”, Seville, Spain, 2004

Conference “The Regulation of Development and the Development of Regulation”, Urbana, USA, 2004

Conference “Argentina and Brazil: The Future of Integration”, Austin, USA, 2004

Taller Regional de Proyecciones Macroeconómicas y Reducción de Pobreza, Mexico City, Mexico, 2003

Hewlett Brazil Project, Brasília, Brazil, 2003

International Conference on Microeconomic Models and Simulation Tools for Fiscal Policy, Madrid, Spain, 2002

The Fourth Annual Hewlett/Brazil/UIUC Project Workshop – New Research on Inequality and Economic Development in Brazil, Urbana, USA, 2002

3rd Economics Workshop at FEA-RP/USP, Ribeirão Preto, Brazil, 2002

Hewlett Brazil Project, Rio de Janeiro, Brazil, 2002

Workshop “Evaluating the Impact of Growth, Economic Policies and Social Programs on Poverty and Distribution: Models and Experiences of Brazil and the World Bank”, São Paulo, Brazil, 2002

International Seminar on “Fiscal Federalism in Mercosur: The Challenges for Regional Integration”, Porto Alegre, Brazil, 2002

International Seminar “Economy and Space”, Ouro Preto, Brazil, 2001

Hewlett Brazil Project: Inaugural Workshop, Urbana, USA, 2000

Workshop “Strategic Aspects of Brazilian trade Policy”, IPEA, Brasília, Brazil, 2000

Seminario “Integración Económica y Convergencia”, Buenos Aires, Argentina, 1999

Seminar in Regional Economic Modeling in Honor of the late Philip Israilevich, Chicago, USA 1998

International Workshop “Theories of Regional Development: Lessons for Policies of Regional Economic Renewal and Growth”, Uddevalla, Sweden, 1998

Conference on Globalisation and Industrial Competitiveness in Brazil, Oxford, UK, 1998

### *Other Presentations and Discussions*

11th edition of The Atlantic Dialogues, Marrakesh, Morocco, 2022

50th Brazilian Economic Association Meeting, Fortaleza, Brazil, 2022

69th Annual North American Meetings of the Regional Science Association International, Montreal, Québec, Canada, 2022

20th Meeting of the Brazilian Regional Science Association – ENABER, Salvador, Brazil, 2022

XLIII Conferenza Scientifica Annuale, Associazione Italiana di Scienze Regionali, Milano, Italy, 2022

61st Congress of the European Regional Science Association, Pécs, Hungary, 2022

68th Annual North American Meetings of the Regional Science Association International, Denver, Colorado, USA, 2021

60th Congress of the European Regional Science Association, Virtual Edition, 2021

13th World Congress of the RSAI, Marrakech, Morocco, 2021 (online)

V Congreso Nacional de Ciencias Agrarias, “Ciencia y tecnología para un desarrollo sustentable”, San Lorenzo, Paraguay, 2021 (online)

67th Annual North American Meetings of the Regional Science Association International, Premier Virtual Conference, USA, 2020 (online)

18th Meeting of the Brazilian Regional Science Association – ENABER, Salvador, Brazil, 2020 (online)

Web-conference: Regional Impacts of the COVID-19 Pandemic, São Paulo, Brazil, 2020 (online)

17th Meeting of the Brazilian Regional Science Association – ENABER, Rio de Janeiro, Brazil, 2019

8th edition of The Atlantic Dialogues, Marrakesh, Morocco, 2019

66th Annual North American Meetings of the Regional Science Association International, Pittsburgh, USA, 2019

59th Congress of the European Regional Science Association, Lyon, France, 2019

7th edition of The Atlantic Dialogues, Marrakesh, Morocco, 2018

65th Annual North American Meetings of the Regional Science Association International, San Antonio, USA, 2018

16th Meeting of the Brazilian Regional Science Association – ENABER, Caruaru, Brazil, 2018

58th Congress of the European Regional Science Association, Dublin, Ireland, 2018

26th International Input-Output Conference, Juiz de Fora, Brazil, 2018

12th World Congress of the RSAI, Goa, India, 2018

64th Annual North American Meetings of the Regional Science Association International, Vancouver, Canada, 2017

2<sup>nd</sup> International Congress of the Moroccan Regional Science Association, Rabat, Morocco, 2017

6th Economics of Low-Carbon Markets Workshop, São Paulo, Brazil, 2017

Special Joint NECTAR Cluster 2/6 Workshop on Smart Cities – Governing Accessibility, Air Pollution and Equity, São Paulo, Brazil, 2017

3rd Biannual ISibalo CRUISE Urban and Regional Science Conference, Stellenbosch, South Africa, 2017

44th Brazilian Economic Association Meeting, Foz do Iguaçu, Brazil, 2016

Encuentro Internacional de Insumo-Producto Regional en América Latina, Guadalajara, Mexico, 2016

56th Congress of the European Regional Science Association, Vienna, Austria, 2016

5th Economics of Low-Carbon Markets Workshop, São Paulo, Brazil, 2016

43th Brazilian Economic Association Meeting, Florianópolis, Brazil, 2015

13th Meeting of the Brazilian Regional Science Association – ENABER, Curitiba, Brazil, 2015

55th Congress of the European Regional Science Association, Lisboa, Portugal, 2015

MENA Development Conference 2015: The Annual Research Conference of the American University in Cairo (AUC), New Cairo, Egypt, 2015

25th Anniversary of the Regional Economics Applications Laboratory (1989-2014), Washington DC, USA, 2014

61st Annual North American Meetings of the Regional Science Association International, Washington DC, USA, 2014

54th Congress of the European Regional Science Association, St Petersburg, Russia, 2014

60th Annual North American Meetings of the Regional Science Association International, Atlanta, USA, 2013

11th Meeting of the Brazilian Regional Science Association – ENABER, Foz do Iguaçu, Brazil, 2013

Third Conference of the Regional Science Association of the Americas, Arica, Chile, 2013

V Encuentro Anual de la Sociedad Chilena de Estudios Regionales (SOCHER) , Arica, Chile, 2013

53th Congress of the European Regional Science Association, Palermo, Italy, 2013

21st International Input-Output Conference, Kitakyushu, Japan, 2013

11th Annual International Conference on Politics and International Affairs, Athens, Greece, 2013

Workshop “The Underground Economy: Socioeconomic Impacts of the Sao Paulo Subway System”, São Paulo, Brazil, 2013

International Workshop “Exchanging Ideas across the Space”, São Paulo, Brazil, 2013

International Workshop on Urban Modeling, São Paulo, Brazil, 2012

52th Congress of the European Regional Science Association, Bratislava, Slovakia, 2012

9th World Congress of the Regional Science Association International, Timisoara, Romania, 2012

International Workshop on the Economic Impacts of Extreme Events, São Paulo, Brazil, 2012

Conference “Crises, Globalization and Culture(s): how to Draw Lessons?”, Kaslik, Lebanon, 2012

40th Brazilian Economic Association Meeting, Porto de Galinhas, Brazil, 2012

10th Meeting of the Brazilian Regional Science Association – ENABER, Recife, Brazil, 2012

58th Annual North American Meetings of the Regional Science Association International, Miami, USA, 2011

51st Congress of the European Regional Science Association, Barcelona, Spain, 2011

Second Conference of the Regional Science Association of the Americas, Miami, USA, 2011

39th Brazilian Economic Association Meeting, Foz do Iguaçu, Brazil, 2011

9th Meeting of the Brazilian Regional Science Association – ENABER, Natal, Brazil, 2011

57th Annual North American Meetings of the Regional Science Association International, Denver, USA, 2010

International Workshop on CGE Modeling and Climate Change, São Paulo, Brazil, 2010

50th Congress of the European Regional Science Association, Jönköping, Sweden, 2010

38th Brazilian Economic Association Meeting, Salvador, Brazil, 2010

8th Meeting of the Brazilian Regional Science Association – ENABER, Juiz de Fora, Brazil, 2010

20 Years of Regional Economic Analysis and Research at REAL - A Celebration in Honor of Professor Geoffrey J. D. Hewings, Urbana, USA, 2009

49th Congress of the European Regional Science Association, Lodz, Poland, 2009

56th Annual North American Meetings of the Regional Science Association International, San Francisco, USA, 2009

First Conference of the Regional Science Association of the Americas, Cartagena de Indias, Colombia, 2009

7th Meeting of the Brazilian Regional Science Association – ENABER, São Paulo, Brazil, 2009

55th Annual North American Meetings of the Regional Science Association International, New York, USA, 2008

48th Congress of the European Regional Science Association, Liverpool, UK, 2008

8th World Congress of the Regional Science Association international, São Paulo, Brazil, 2008

6th Meeting of the Brazilian Regional Science Association – ENABER, Aracaju, Brazil, 2008

LACEA-LAMES 2007, Bogotá, Colombia, 2007

2nd International Symposium on Economic Theory, Policy and Applications, Athens, Greece, 2007

International Conference on Policy Modeling – EcoMod 2007, São Paulo, Brazil, 2007

5th Meeting of the Brazilian Regional Science Association – ENABER, Recife, Brazil, 2007

35th Brazilian Economic Association Meeting, Recife, Brazil, 2007

46th Congress of the European Regional Science Association, Volos, Greece, 2006

EcoMod International Conference on Regional and Urban Modeling, Brussels, Belgium 2006

34th Brazilian Economic Association Meeting, Salvador, Brazil, 2006

52nd Annual North American Meetings of the Regional Science Association International, Las Vegas, USA, 2005

45th Congress of the European Regional Science Association, Amsterdam, Netherlands, 2005

8th Annual Conference on Global Economic Analysis, Lübeck, Germany, 2005

International Conference on Input-Output and General Equilibrium: Data, Modeling, and Policy Analysis, Brussels, Belgium, 2005

33rd Brazilian Economic Association Meeting, Natal, Brazil, 2005

44th Congress of the European Regional Science Association, Porto, Portugal, 2004

Workshop on “Evaluating the Poverty and Distributional Impacts of Economic Policies in Brazil Using Micro-Macro Analysis”, São Paulo, Brazil, 2004

32nd Brazilian Economic Association Meeting, João Pessoa, Brazil, 2004

3rd Meeting of the Brazilian Regional Science Association – ENABER, Belo Horizonte, Brazil, 2004

50th Annual North American Meetings of the Regional Science Association International, Philadelphia, USA, 2003

International Conference on Policy Modeling – EcoMod2003, Istanbul, Turkey, 2003

31st Brazilian Economic Association Meeting, Porto Seguro, Brazil, 2003

7th ABET National Meeting, São Paulo, Brazil, 2003

42nd Congress of the European Regional Science Association, Dortmund, Germany, 2002

2nd Meeting of the Brazilian Regional Science Association – ENABER, São Paulo, Brazil, 2002

48th Annual North American Meetings of the Regional Science Association International, Charleston, USA, 2001

41st Congress of the European Regional Science Association, Zagreb, Croatia, 2001

1st Meeting of the Brazilian Regional Science Association – ENABER, Belo Horizonte, Brazil, 2001

47th Annual North American Meetings of the Regional Science Association International, Chicago, USA, 2000

28th Brazilian Economic Association Meeting, Campinas, Brazil, 2000

46th Annual North American Meetings of the Regional Science Association International, Montreal, Canada, 1999

27th Brazilian Economic Association Meeting, Belém, Brazil, 1999

2nd Brazilian Economic Association Meeting (Chapter South), Curitiba, Brazil, 1999

45th Annual North American Meetings of the Regional Science Association International, Santa Fe, New Mexico, USA, 1998

38th Congress of the European Regional Science Association, Vienna, Austria, 1998

Eleventh Advanced Studies Institute in Regional Science – Summer Institute 1998, Munich, Germany, 1998

5th APDR Congress – Associação Portuguesa para o Desenvolvimento Regional (APDR), Coimbra, Portugal, 1998

Research Seminar “Structures and Prospects of Nordic Regional Economies”, Savonlinna, Finland, 1998

12th International Input-Output Conference, New York, USA, 1998

44th Annual North American Meetings of the Regional Science Association International, Buffalo, USA, 1997

28th Annual Meeting of the Mid-Continent Regional Science Association, Indianapolis, USA, 1997

42nd Annual North American Meetings of the Regional Science Association International, Cincinnati, USA, 1995

### *Short Courses and Lectures*

*Nereides Program* – “Taller Insumo-Producto”, Instituto IDEEAS de la Universidad Tecnológica de Bolívar, Cartagena, Colombia, 2023

*Nereides Program* – Workshop: “Análisis Regional de Insumo-Producto: Aplicaciones para Paraguay”, Facultad de Ciencias Agrarias, Universidad Nacional de Asunción, Campus San Lorenzo, Paraguay, 2023

*Nereides Program* – Workshop: “Matriz de Insumo-Producto para a Região Autônoma da Madeira: Conceitos Básicos e Aplicações”, Direção Regional de Estatística da Madeira, Funchal, Portugal, 2023

Course on “Regional Policy-Making and Analysis” (50 hours), Master Program, Economic Analysis and Public Policy, Mohammed VI Polytechnic University (UM6P), Rabat, Morocco, 2022-2023

International Seminar “The Mantiqueira Economy”, Celebration of the 20<sup>th</sup> anniversary of NEREUS, Federal University of Itajubá (UNIFEI), March 9-10, Itajubá, MG, Brazil, 2022

Course on “Regional Policy-Making and Analysis” (50 hours), Master Program, Economic Analysis and Public Policy, Mohammed VI Polytechnic University (UM6P), Rabat, Morocco, 2021-2022

*Nereides Program* – Workshop: “Matriz Insumo-Producto para Angola”, African Development Bank, Luanda, Angola, 2021 (online)

Course on “Regional Policy-Making and Analysis” (50 hours), Master Program, Economic Analysis and Public Policy, Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco, 2020-2021

Course on “Regional Policy-Making and Analysis” (50 hours), Master Program, Economic Analysis and Public Policy, Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco, 2019-2020

*Nereides Program* – Workshop: “Multi-regional Economic Modeling: Applications for Mexico”, Centro de Investigación y Docencia Económicas, Ciudad de México, Mexico, 2020

*Nereides Program* – Datos Espaciales y Análisis Factorial: Competitividad Sistémica para la Región Pacífico de Colombia, Cali, Colombia, 2019

*Nereides Program* – Workshop: “Modelos de Economía Regional Aplicados a Angola”, Huambo, Angola, 2019

Course on “Executive Certificate in Regional & International Markets: Regional Economics” (24 hours), Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco, 2019

*Nereides Program* – Workshop on Applied Economics, Federal University of São Carlos, Sorocaba, Brazil, 2019

*Nereides Program* – International Workshop on General Equilibrium Modeling: Applications for the Chilean Economy, Viña del Mar, Chile, 2018

*Nereides Program* – Course on “Methods of Regional and Interregional Analysis” (12 hours), State University of Mato Grosso do Sul, Ponta Porã, Brazil, 2018

- Course on “Advanced Training in Economic Analysis and Management: Regional Economics” (24 hours), Africa Business School, OCP, Casablanca, Morocco, 2018
- Nereides Program* – Course on “Multi-regional Economic Modeling: Applications for Morocco” (20 hours), OCP Policy Center, Rabat, Morocco, 2017
- Nereides Program* – Course on “Methods of Regional and Interregional Analysis” (12 hours), Federal University of Piauí, Teresina, Brazil, 2017
- Course on “Advanced Training in Economic Analysis and Management: Regional Economics” (30 hours), OCP Policy Center, Rabat, Morocco, 2017
- Course on “Research Assessment of Academic Economists in Brazil” at the XLII Encontro Nacional dos Estudantes de Economia – ENECO, São Paulo, Brazil, 2016
- Course on “Economics of Urban Mobility” at the XLII Encontro Nacional dos Estudantes de Economia – ENECO, São Paulo, Brazil, 2016
- Course on “Advanced Training in Economic Analysis and Management: Module 8 – Regional Economics” (30 hours), OCP Policy Center, Rabat, Morocco, 2016
- Summer course on “Computable General Equilibrium”, IPE-USP, São Paulo, Brazil, 2016
- Course on “Practical General Equilibrium Modeling – The CEER Model: A Spatial CGE Model for Colombia”, Banco de la República de la Colombia, Cartagena de Indias, Colombia, 2015
- Course on “Advanced Training in Economic Analysis and Management: Module 4 – Regional Economics” (30 hours), OCP Policy Center, Rabat, Morocco, 2015
- Guest Lecture at the Woodrow Wilson School of Public and International Affairs, Princeton University, Spring 2015 (Graduate course on Urban Economics), USA, 2015
- Guest Lecture at the Woodrow Wilson School of Public and International Affairs, Princeton University, Spring 2014 (Graduate course on Urban Economics), USA, 2014
- Course on “Applied CGE Modeling” at the Third Edition of the International School of Input-Output Analysis, Kitakyushu, Japan, 2013
- Course on “Interregional CGE Models” at the 1st Summer School in Economic and Development, Universidade de São Paulo, São Paulo, Brazil, 2012
- Course on “Interregional CGE Models” at the 1st RSAI Summer Course, Azores, Portugal, 2011
- Course on “Modelos Operacionais de Economia Regional”, Azores, Portugal, 2010
- Course on “Practical General Equilibrium Modeling – The CEER Model: A Spatial CGE Model for Colombia”, Banco de la República de la Colombia, Cartagena de Indias, Colombia, 2008
- EcoMod Modeling School “Practical General Equilibrium Modeling with GAMS”, São Paulo, Brazil, 2007
- Practical General Equilibrium Modelling, São Paulo, Brazil, 2006
- 25th Brazilian Econometrics Society Meeting, Porto Seguro, Brazil, 2003
- Banco de la República de la Colombia, Cartagena de Indias, Colombia, 2003
- Lecture on “Interregional CGE Models” at the graduate course “Regional Science Methods”, University of Illinois at Urbana-Champaign, Urbana, USA, 2002
- Course on “Micro-Macro Simulation Methods for Poverty Analysis: An Introduction to IMMPA”, São Paulo, Brazil, 2002
- Joint Africa Institute-World Bank Workshop – Quantitative Macroeconomic Analysis for Growth and Poverty Reduction Strategies, Abidjan, Ivory Coast, 2002
- Course on “Macroeconomic Management: Current Policy Issues and Quantitative Methods”, São Paulo, Brazil, 2000
- Course on “Spatial Economic Models”, Rio de Janeiro, Brazil, 1999

Course on “Interregional CGE Modeling at AKF”, Copenhagen, Denmark, 1998

### *Seminars*

Université Mohammed VI Polytechnique, Rabat, Morocco, 2023  
 Universidade Federal da Bahia, Salvador, Brazil, 2021 (webinar)  
 Universidade Federal de Pelotas, Pelotas, Brazil, 2021 (webinar)  
 REAL, University of Illinois at Urbana-Champaign, USA, 2020 (webinar)  
 Universidade Federal Rural de Pernambuco, Recife, Brazil, 2020 (webinar)  
 Universidade Federal de São Carlos, Sorocaba, Brazil, 2018  
 Universidade Federal de Pernambuco, Caruaru, Brazil, 2018  
 Universidade de São Paulo, São Paulo, Brazil, 2017  
 Universidade Federal de Uberlândia, Uberlândia, Brazil, 2016  
 Universidade Federal de Juiz de Fora, Juiz de Fora, Brazil, 2016  
 Universidade Federal Fluminense, Niterói, Brazil, 2016  
 Universidade de São Paulo, São Paulo, Brazil, 2016  
 Universidade Federal do ABC, São Bernardo do Campo, Brazil, 2016  
 Universidade Federal do Paraná, Curitiba, Brazil, 2015  
 Universidade de São Paulo, São Paulo, Brazil, 2015  
 Department of Economics, University of Illinois at Urbana-Champaign, 2014  
 Edward J. Bloustein School of Planning & Public Policy, Rutgers, The State University of New Jersey, 2014  
 Edward J. Bloustein School of Planning & Public Policy, Rutgers, The State University of New Jersey, 2013  
 Department of Economics, American University of Beirut, Beirut, Lebanon, 2012  
 WIFO Public Lecture, Austrian Institute of Economic Research (WIFO), Vienna, Austria, 2012  
 Ministerio de Transportes y Comunicaciones, Lima, Peru, 2010  
 Universidad Central, Bogotá, Colombia, 2009  
 EESP-FGV São Paulo, São Paulo, Brazil, 2008  
 Universidade de São Paulo, São Paulo, Brazil, 2008  
 Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 2008  
 Regional Economics Applications Laboratory, University of Illinois at Urbana-Champaign, Urbana, USA, 2007  
 Universidade Federal do Paraná, Curitiba, Brazil, 2007  
 Universidade de São Paulo, São Paulo, Brazil, 2007  
 Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 2004  
 Universidade de Brasília, Brasília, Brazil, 2004  
 Universidade de São Paulo, São Paulo, Brazil, 2004  
 Banco de la República, Cartagena de Indias, Colombia, 2003



Fundação de Economia e Estatística Siegfried Emanuel Heuser – FEE, Porto Alegre, Brazil, 2003  
 Universidade de São Paulo, São Paulo, Brazil, 2003  
 EESP-FGV São Paulo, São Paulo, Brazil, 2002  
 Development Bank of Minas Gerais, Belo Horizonte, Brazil, 2002  
 IPEA-Rio, Rio de Janeiro, Brazil, 2001  
 Universidade de São Paulo, São Paulo, Brazil, 2001  
 Inter-American Development Bank, Washington D.C., USA, 2000  
 Universidade de São Paulo, São Paulo, Brazil, 2000  
 Universidade de São Paulo, São Paulo, Brazil, 1999  
 Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 1999  
 Universidade Federal de Juiz de Fora, Juiz de Fora, Brazil, 1999  
 Núcleo de Estudo de Modelos Espaciais Sistêmicos, IPEA-Rio, Rio de Janeiro, Brazil, 1999  
 ESALQ/USP, Piracicaba, Brazil, 1999  
 Regional Economics Applications Laboratory, University of Illinois at Urbana-Champaign, Urbana, USA, 1999  
 Centre for Brazilian Studies Seminars – University of Oxford, Oxford, UK, 1998

*CONTRACT RESEARCH AND CONSULTING*

Principal Investigator, *São Paulo City Film and Audiovisual Industry Economic Impact Study*, SPCINE, Brazil, 2023  
 Principal Investigator, Measurement of the Industrial Base of the Defense and Security Complex – Phase 2, Brazilian National Confederation of Industry/SENAI, Brazil, 2020-2021  
 Consultant, Multi-Country Systemic Risk Analysis for Costa Rica, Eswatini, Somalia, and Sudan, ERN International and UN Office for Disaster Risk Reduction (UNDRR), Mexico City, Mexico, 2022-2023  
 Principal Investigator, *Socioeconomic Impacts of the iFood Operations in Brazil*, iFood Brasil, Brazil, 2023  
 Principal Investigator, *Interregional Input-Output Model and Interregional Dynamic CGE Model for Impact Assessment of Investments in Urban Infrastructure in the State of Paraná*, Paranacidade, Brazil, 2023  
 Principal Investigator, *Interregional Input-Output Model for Madeira*, Associação para a Ciência e Desenvolvimento dos Açores (Project developed for Secretaria Regional das Finanças, Direção Regional de Estatística da Madeira), 2022-2023  
 Co-Principal Investigator, *Update: Economic and Financial Assessment of the Sport, Recreational and Cultural Activities at the “Dunas Arena – 2011-2021”*, Dunas Arena Concession and Events Inc., 2022-2023  
 Co-Principal Investigator, *Interregional Input-Output Model for Brazilian Northeast Region*, Banco do Nordeste do Brasil, Brazil, 2022-2023  
 Principal Investigator, *Trajectories and Indicators of Sustainable Urban Planning for the Observatory of Innovation for Sustainable Cities under the GEF Project*, Centro de Gestão e Estudos Estratégicos – CGEE, Brazil, 2022-2023  
 Principal Investigator, *Impact Analysis of the JBS S.A.*, JBS S. A., Brazil, 2022

- Principal Investigator, *The Importance of the Third Sector to the National and Regional GDP in Brazil*, SITAWI – Terceiro Setor, Brazil, 2022
- Principal Investigator, *Update: Socioeconomic Impacts of 99 Drivers' Income in Brazilian States and Selected Capital Cities*, 99 Technology Inc., Brazil, 2022
- Consultant, *Studies for the Elaboration of the Minas Gerais Decarbonization Plan 2050*, Carbon Disclosure Project (Latin America), 2022
- Consultant, *Studies for the Elaboration of the Pernambuco Decarbonization Plan 2050*, COPPE-UFRJ, Fundação COPPETEC, 2021
- Consultant, Multi-Country Systemic Risk Analysis (Scoping), ERN International and UN Office for Disaster Risk Reduction (UNDRR), Mexico City, Mexico, 2021-2022
- Principal Investigator, *Study with the Interregional Input-Output System for the Amazon under the NEA Project*, WRI Brasil, Brazil, 2021-2022
- Principal Investigator, *Input-Output Model for the Assessment of the Direct and Indirect Socioeconomic Impacts of the Expansion of Different Segments of the Energy Sector*, Energy Research Office (EPE), Brazil, 2021-2022
- Consultant, *Interregional Input-Output Table and Interregional SAM for Iraq*, MINERVA Project, USA, 2021-2022
- Non-Resident Fellowship, Policy Center for the New South, Rabat, Morocco, 2021-2024
- Principal Investigator, *Support the Team in the Update of the Input-Output Tool for Angola*, African Development Bank, Angola, 2021-2022
- Consultant, *Interregional Modeling for the Kingdom of Saudi Arabia*, ECOMOD LLC , USA, 2021
- Principal Investigator, *Economic Impacts of a Unilateral Reduction of Brazilian Import Tariffs on Steel*, Brazilian Association of Real Estate Developers (ABRAINC), Brazil, 2021
- Principal Investigator, *Impact of COVID-19 using Input-Output Matrix and Capacity Building*, African Development Bank, Angola, 2020-2021
- Principal Investigator, *Socioeconomic Impacts of the iFood Operations in Brazil*, iFood Brasil, Brazil, 2021
- Senior Researcher, *Economic and Financial Assessment of the Sport, Recreational and Cultural Activities at the "Dunas Arena"*, Dunas Arena Concession and Events Inc., 2021
- Principal Investigator, *Structural Analysis of Short-Run and Long-Run Economic Scenarios for Morocco: A Multisectoral and Multiregional Approach*, The World Bank, USA, 2021
- Principal Investigator, *Training on Input-Output Analysis*, Energy Research Office (EPE), Brazil, 2020
- Principal Investigator, *Measurement of the Industrial Base of the Defense and Security Complex*, Brazilian National Confederation of Industry, Brazil, 2020-2021
- Co-Principal Investigator, *Estimation of the Interregional Input-Output System for the State of Rio Grande do Sul*, Rio Grande do Sul State Secretariat for Planning, Budget and Administration (SEPLAG), 2020-2021
- Principal Investigator, *Studies for the Elaboration of the São Paulo State Economic Development Plan 2040*, São Paulo State Secretariat for Economic Development (SDE), 2019-2022
- Principal Investigator, *Systemic Impacts of Sugary Drinks Tax Scenarios*, ACT-BR, Brazil, 2019-2020
- Co-Principal Investigator, *Economic Impact Analysis of the Investments in the Cataratas do Iguaçú, Ecorononha and Paineiras Corcovado Parks*, Cataratas Group, Brazil, 2019
- Principal Investigator, *Development of Computational Tools to Estimate and Simulate the Demand for the Transport System in the Metropolitan Region of São Paulo*, Companhia do Metropolitano de São Paulo (Metrô), Brazil, 2019-2021

- Co-Principal Investigator, *Study to Support the Implementation of a Federative Pact Between the Secretariat and the Municipalities*, São Paulo State Secretariat for Regional Development (SDR), Brazil, 2019-2020
- Principal Investigator, *Study on Urban Mobility in the Recife Metropolitan Region*, Uber do Brasil Tecnologia Ltda., Brazil, 2020
- Principal Investigator, *Socioeconomic Impacts of 99 Drivers' Income in Brazilian States and Selected Capital Cities*, 99 Technology Inc., Brazil, 2019
- Non-Resident Fellowship, Policy Center for the New South, Rabat, Morocco, 2018-2020
- Co-Principal Investigator, *Interregional Input-Output Matrix for the Brazilian Amazon*, Superintendency of Development for the Amazon (SUDAM), Brazil, 2019
- Principal Investigator, *An Interregional Computable General Equilibrium Model for Mexico*, Centro ITAM de Energía y Recursos Naturales, Mexico, 2019
- Principal Investigator, *Input-Output Model and CGE Model for the State of Minas Gerais, Brazil*, Federation of Industries of the State of Minas Gerais (FIEMG), Brazil, 2019
- Principal Investigator, *Socioeconomic Impacts of Tax Policies Related to Biofuels in the States of São Paulo and Minas Gerais*, Energy Research Office (EPE), Brazil, 2018-2019
- Consultant (Data Expert), *Measurement of the Services Value Added in Brazilian Exports*, United Nations Conference on Trade and Development (UNCTAD), Switzerland, 2018-2019
- Principal Investigator, *Study on Urban Mobility in the São Paulo Metropolitan Region*, Uber do Brasil Tecnologia Ltda., Brazil, 2018-2019
- Principal Investigator, *Analysis of the Economic Impacts of the 2018 Carnival in Belo Horizonte, Minas Gerais*, Belotur, Brazil, 2018
- Principal Investigator, *Socioeconomic Impacts of Ridesharing in São Paulo Metropolitan Region*, 99 Technology Inc., Brazil, 2018
- Principal Investigator, *Territorial Development in Maranhão: A Spatial Diagnostics*, The World Bank, USA, 2017
- Senior Researcher, *Socioeconomic Studies and Origin and Destination Survey to Support the Updating of the Road Development Plan (RDP) and the Elaboration of the State Plan of Logistics and Transportation – State of Santa Catarina (PELT-SC)*, Santa Catarina State Secretariat Planning for Infrastructure, Brazil, 2016-2017
- Principal Investigator, *Value Chain and Socioeconomic Relevance of the Real Estate Sector in Brazil and its Macroregions*, Brazilian Association of Real Estate Developers (ABRAINC), Brazil, 2016-2017
- Principal Investigator, *Input-Output Model and Computable General Equilibrium Model for the Brazilian Economy*, Brazilian National Confederation of Industry, Brazil, 2016-2017
- Principal Investigator, *Value Chain and Socioeconomic Impacts of the Airbnb Operations in Brazil*, Airbnb, Inc., Brazil, 2017
- Principal Investigator, *Mobility in Cities – Distributional Impact Analysis of Transportation Improvement in the Metropolitan Region of São Paulo*, The World Bank, USA, 2015-2016
- Non-Resident Fellowship, OCP Policy Center, Rabat, Morocco, 2015-2017
- Principal Investigator, *Update and Further Specification of the CEER Model, An Interregional Computable General Equilibrium Model for Colombia*, Banco de la República, Colombia, 2014-2015
- Principal Investigator, *Mitigation Options of Greenhouse Gas (GHG) Emissions in Key Sectors in Brazil – Economic Scenarios*, United Nations Environment Programme (UNEP), 2014-2016
- Principal Investigator, *Forecasts of Sectoral Economic Activity in the State of São Paulo 2014-2020*, Mercados de Energia Consulting, Brazil, 2014

Co-Principal Investigator, *Sectoral and Regional Economic Scenarios 2030 and the Impacts of the Investments of the São Paulo State Government*, São Paulo State Secretariat Planning and Regional Development, 2013-2014

Senior Researcher, *Tourism Demand and Socioeconomic Impacts of the FIFA Confederations Cup Brazil 2013*, Ministry of Tourism, Brazil

Co-Principal Investigator, *Regional Impacts of Planned Investments in the State of São Paulo*, SEBRAE-SP, Brazil, 2013

Senior Researcher, *Selection Criteria for the Beneficiary Municipalities from the New Metropolitan Development Fund*, São Paulo Company of Metropolitan Planning (EMPLASA), Brazil, 2012-2013

Co-Principal Investigator, *Development of an Intermunicipal Input-Output System for the Analysis of Fiscal Incentives and New Investment Projects in the State of São Paulo*, São Paulo State Secretariat of Finance, Brazil, 2012-2013

Principal Investigator, *Volkswirtschaftliche Effekte von Maßnahmen zur Steigerung der Energieeffizienz und des Anteils Erneuerbarer Energien in den österreichischen Klima- und Energiemodellregionen: Modellierung der gesamtwirtschaftlichen Effekte auf regionaler Ebene*, The Austrian Institute of Economic Research (WIFO), Austria, 2012

Principal Investigator, *Economic Impacts of New Metropolitan Bus Corridors*, Metropolitan Company of Urban Transport in São Paulo (EMTU), Brazil, 2012-2013

Senior Researcher, *Development of Tools for Forecasting and Scenario-Building at the Regional Level including Structural Information from Local Input-Output Tables*, CPFL Energy, Brazil, 2011-2013

Principal Investigator, *Evaluation of the Ex Ante Impact of PRODETUR-BA*, Bahia State Secretariat of Tourism, Brazil, 2011-2012

Co-Principal Investigator, *Study on the Transport Demand and Characterization and Quantification of Sectoral Logistic Costs in the State of São Paulo*, Department of Highways of the State of São Paulo (DER-SP), Brazil, 2011-2013

Principal Investigator, *Multi-sectoral Economic Scenarios for Peru 2030*, Logit Consulting Engineering, Brazil, 2010

Senior Researcher, *Economic Impact Analysis of the Biodiesel Project (BIOVALE) in the State of Pará*, Vale Foundation and PHORUM Consulting in Economics, Brazil, 2010

Principal Investigator, *Impact of Pre-Salt Investments across Sectors and Regions: A Pilot CGE Analysis*, The World Bank, USA, 2010-2011

Principal Investigator, *Evaluation of the Ex Ante Impact of PRODETUR-RJ*, Rio de Janeiro State Secretariat of Public Works, Brazil, 2010

Senior Researcher, *Monitoring the Quality of Urban Life in São Paulo*, Inter-American Development Bank, USA, 2010

Senior Researcher, *Domestic and International Tourists Forecasts for the City of São Paulo Tourism Plan 2011-2014*, SPTuris, Brazil, 2010

Principal Investigator, *Sectoral and Regional Socioeconomic Impacts of the Vale's Portfolio of Investments*, Vale Foundation, Brazil, 2010-2011

Principal Investigator, *Economic Modeling of the National Plan of Logistics and Transportation*, Logit Consulting Engineering and Ministry of Transportation, Brazil, 2010-2011

Principal Investigator, *Assessment of the Economic Impacts of Global Climate Change in the State of Minas Gerais*, Environmental State Foundation – Minas Gerais (FEAM), 2010-2011, Brazil

Principal Investigator, *Economic Impacts of the Specialization Pattern of the Brazilian International Trade*, United Nations Economic Commission for Latin America and the Caribbean and IPEA, Brazil, 2009

Short-term Consultant, Departamento Nacional de Planeación, República de Colombia, 2009

- Principal Investigator, *Historical Time Series and Forecasts of Sectoral Economic Activity in the State of São Paulo 2004-2014*, Mercados de Energia Consulting, Brazil, 2009
- Co-Principal Investigator, *Methodology for Long-Term Forecasts of Regional Markets*, Electricity Company of the State of Matro Grosso (CEMAT), Brazil, 2009-2011
- Principal Investigator, *Socioeconomic Scenarios for the Northern Coast*, Municipality of São Sebastião, SP, Brazil, 2009-2010
- Principal Investigator, *Assessment of Climate Change Impact on the Brazilian Economy*, Ministry of Foreign Affairs, UK, 2008-2009
- Principal Investigator, *Spatial Economic and Demographic Scenarios for the State of Bahia*, Electricity Company of the State of Bahia (COELBA), Brazil, 2008-2009
- Principal Investigator, *Studies and Research on Energy Demand in Brazil*, Eletrobras, 2008-2010
- Principal Investigator, *State Plan of Logistics and Transportation – State of Pará, Brazil*, Pará State Secretariat of Transportation, 2008-2010
- Principal Investigator, *Technical Advisory Study for the State Transportation Policy*, Minas Gerais State Secretariat of Transportation and Public Works, Brazil, 2007-2008
- Principal Investigator, *Socioeconomic Impacts of the Panamerican Games 2007*, Ministry of Sports and Fundação Instituto de Administração (FIA), Brazil, 2007-2008
- Principal Investigator, *National Plan of Logistics and Transportation: Methodological Integration of the Economic and Transport Models and Forecasts Updates*, Ministry of Defense, Brazil, 2008-2010
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- Principal Investigator, *Socioeconomic Aspects of the Petrochemical Complex in the State of Rio de Janeiro*, Petrobras, Brazil, 2006
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- Principal Investigator, *Sustainability Impact Assessment – Agriculture Sector Study*, Overseas Development Institute, UK, 2004
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- Consultant, *Country Report (Economics): Brazil*, Economist Intelligence Unit (EIU), UK, 2004
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Consultant, Joint Africa Institute, Abidjan, Ivory Coast, 2002

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Senior Researcher, *Development of São Paulo: Competitiveness in a New Scenario*, São Paulo State Secretariat of Economy and Planning, Brazil, 2002

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Senior Researcher, *Assessment of the Informal Sector in the Market for Cleaning Products*, National Association of Cleaning Products, Brazil, 2001

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Principal Investigator, *Integrated System for Planning and Economic Policy Evaluation (SIPAPE)*, Institute of Economic Research Foundation (FIPE), Brazil, 1999

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