

ALEJANDRA RODRÍGUEZ SÁNCHEZ

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RESEARCH INTERESTS

Migration, Social inequality, Family dynamics, Causal inference, Machine learning

EDUCATION

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|---|------|
| Ph.D., Sociology Humboldt Universität zu Berlin - Berlin, Germany Dissertation: <i>Family Behavior and Children's Outcomes: Modeling and Measurement Issues</i> Grade: <i>summa cum laude</i> | 2022 |
| M.Sc., Statistics Humboldt Universität zu Berlin - Berlin, Germany | 2018 |
| M.A., Research Training Program in the Social Sciences Humboldt Universität zu Berlin - Berlin, Germany | 2016 |
| B.A., Sociology Universidad del Valle - Cali, Colombia | 2014 |
| B.A., Economics Universidad del Valle - Cali, Colombia | 2011 |
| High School Colegio Agustiniano - Palmira, Colombia | 2005 |

ACADEMIC APPOINTMENTS

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| Postdoc Faculty of Economics and Social Sciences, University of Potsdam | October 2022 - present Potsdam, Germany |
| Research Assistant Das Deutsche Zentrum für Integrations- und Migrationsforschung (DeZIM) | March 2021 - October 2022 Berlin, Germany |
| Research Assistant Institute of Social Psychology and Social Sciences, Universität zu Köln | August 2020 - September 2021 Cologne, Germany |
| Teaching Assistant Institute of Social Sciences, Humboldt Universität zu Berlin | WS 2020-2021 Berlin, Germany |
| Teaching Assistant Institute of Social Sciences, Humboldt Universität zu Berlin | WS 2019-2020 Berlin, Germany |
| Research Assistant Faculty of Social and Economic Sciences, Universidad del Valle | 2011-2014 Cali, Colombia |

PEER-REVIEWED PUBLICATIONS

Rodríguez Sánchez, A., Wucherpfennig, J., Rischke, R., and Iacus, S.: **Search-and-rescue in the Central Mediterranean Route does not induce migration: Predictive modeling to answer causal queries in migration research** *Scientific Reports*, 13(1), 11014 (2023)

Zucotti, C., Lorenz, J., Paolillo, R., **Rodríguez Sánchez, A.**, and Serka, S. **Exploring the dynamics of neighborhood ethnic segregation with agent-based modelling: an empirical application to Bradford** *Journal of Ethnic and Migration Studies*, 49(2), 554-575 (2023)

Recchi, E., Ferrara, A., **Rodríguez Sánchez, A.**, Deutschmann, E., Gabrielli, L., Iacus, S., Bastiani, L., Spyrtos, S., and Vespe, M: **The Impact of Air Travel on the Precocity and Severity of Covid-19 in Sub-National Areas across 46 Countries** *Scientific reports* 12(1), 16522 (2022)

Rodríguez Sánchez, A. **What can parents do? The causal mediating role of parenting in SES differences in children's language development** *Journal of Family Research*, 35, 53-84 (2023)

Rodríguez Sánchez, A. **Fair comparisons: life course selection bias and the effect of father absence on US children** *Advances in Life Course Research*, 51, 100460 (2022)

Rodríguez Sánchez, A.; Harkness, S., and Fasang, A. **Gender division of housework during the COVID-19 pandemic: temporary shocks or durable change?** *Demographic Research*, 45, 1297-1316 (2021)

Rodríguez Sánchez, A. **Is it just noise? Measuring unobservable cognitive abilities in early childhood.** *Personality and Individual Differences*, 166, 110162 (2021)

Karius, P., Lembcke, A., Sokolowski, F. C., Gandara, I. D. P., **Rodríguez Sánchez, A.**, Hamm, B., & Dewey, M. **Extracardiac findings on coronary computed tomography angiography in patients without significant coronary artery disease** *European radiology*, 29, 1714-1723 (2019)

Sokolowski, F., Karius, P., **Rodríguez Sánchez, A.** Lembcke, A., Wagner, M., Hamm, B. and Dewey, M. **Extracardiac findings at cardiac MR imaging: a single-centre retrospective study over 14 years** *European Radiology*, 28, 4102-4110. (2018)

de Vries, H., Fishta, A., Weikert, B., **Rodríguez Sánchez, A.** and Uta Wegewitz, U. **Determinants of Sickness Absence and Return to Work Among Employees with Common Mental Disorders: A Scoping Review**, *ournal of occupational rehabilitation*, 28, 393-417 (2018)

Urrea-Giraldo, F. and **Rodríguez Sánchez, A.** **Collecting Ethnic and Racial Data in Censuses and Surveys: the Latin American Experience in the Cases of Brazil, Colombia, Mexico and Peru** *Revista de História Comparada*, 8(1), 7-35 (2014)

Urrea-Giraldo, F. and **Rodríguez Sánchez, A.** **Sociodemographic and Living Conditions Transformations in Two Indigenous and a Black Population in the Northern Side of Cauca Department in the period 1993-2005** *Colombia Médica: CM*, 43(2), 126 (2012)

IN PROGRESS

Rodríguez Sánchez, A., Maaß, A., and Tjaden, J.: **Which factors drive migration intentions across the world? A machine learning approach to Gallup data**

Rodríguez Sánchez, A. and Tjaden, J.: **Estimating the stock of unauthorized migrants in England after a health care reform employing spatial difference-in-differences**

Rodríguez Sánchez, A., Weber, I., and Tjaden, J.: **Employing machine learning to uncover the size of hidden population in Facebook migrant stocks**

Tjaden, J. and **Rodríguez Sánchez, A.**: **List experiments to study a hard-to-reach group: Undocumented migrants in the US**

Wucherpennig, J. and **Rodríguez Sánchez, A.**: **The Missing Missing Migrants: Estimating the Dark Figure in Migrant Deaths in the Central Mediterranean**

Rodríguez Sánchez, A., Wucherpennig, J., Morina, D., and Fernandez, A.: **Perilous Journeys: Recounting a decade of deaths in the Mediterranean and Atlantic Sea Routes to Europe**

Boertien, D. and *Rodríguez Sánchez, A.*: **A statistical decomposition of differences in subjective wellbeing among minoritized gender identities and sexual orientations in two Colombian surveys**

Rodríguez Sánchez, A. **The complex effects of family instability on adolescent problem behavior in a U.S. birth cohort** *UNDER REVIEW* (2023)

TEACHING

University of Potsdam, Faculty of Economics and Social Sciences

Introduction to computational social sciences: Machine Learning

WS 2023-2024

Humboldt Universität zu Berlin, Institute of Social Sciences

Microsociology and Demography

WS 2020-2021

Introduction to Categorical Data Analysis in R

WS 2019-2020

OTHER ACADEMIC AND RESEARCH EXPERIENCE

Student Assistant, *Institut für Radiologie, Charité* Berlin, Germany, (Juli 2016 - September 2017)

Student Assistant, *Bundesanstalt für Arbeitsschutz und Arbeitsmedizin* Berlin, Germany (April 2015 - September 2016)

Student Assistant, *Deutsches Institut für Wirtschaftsforschung*, Berlin, Germany (April 2015 - November 2015)

FURTHER EDUCATION

Starter-Kit Lehre, University of Potsdam - Three day teaching training program 2023

Agent-based Modelling in the Social Sciences, GESIS Spring Seminar: Simulation Techniques in the Social Sciences 2022

Causal Machine Learning, GESIS Spring Seminar: Causal Inference 2021

Summer School in Computational Social Sciences on Migration, Bremen International Graduate School of Social Sciences (BIGSSS) in Sardinia, Italy 2019

Summer School of Socioeconomic Inequality, Norwegian School of Economics, Bergen 2019

AWARDS

2nd Best PhD Dissertation Award, European Consortium for Sociological Research (ECSR) 2023

Ph.D. Scholarship, Rosa Luxemburg Stiftung (RLS) 2017-2020

Young Researchers Grant, COLCIENCIAS & Universidad del Valle, Cali, Colombia 2011

Erasmus Mundus Scholarship, EU & Universidad de Granada, Spain WS 2009-2010

Academic Excellence Recognition, Universidad del Valle, Colombia 2008-2014

SKILLS

Statistical Software: R (advanced), Python (basic), and Netlogo (very basic)

Languages: English, Spanish, German, French and Portuguese

Other LaTeX, markdown

REFERENCES

Prof. Dr. Anette Eva Fasang, Humboldt University of Berlin, [anette.fasang\[at\]sowi.hu-berlin.de](mailto:anette.fasang@sowi.hu-berlin.de)

Prof. Dr. Jasper Tjaden, University of Potsdam, [jasper.tjaden\[at\]uni-potsdam.de](mailto:jasper.tjaden@uni-potsdam.de)

Dr. Stefano Maria Iacus, Harvard University, [siacus\[at\]iq.harvard.edu](mailto:siacus@iq.harvard.edu)