JORGE CIMENTADA

CONTACT INFORMATION

Max Planck Institute of Demographic Research Laboratory of Digital and Computational Demography

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https://cimentadaj.github.io/

Google Scholar

Github: github/cimentadaj

EDUCATION

2015/2019 Ph.D. Pompeu Fabra University, Political and Social Sciences

Fields: Sociology and Social inequalities

Dissertation: "Educational institutions and their effect on inequality: Three Papers on Educational Systems and Inequality of Achievement and Opportunity"

Advisors: Bruno Arpino, Gøsta Esping-Andersen

Committee: Fabrizio Bernardi (president), Elizabeth Washbrook, Luis Ortiz

Awarded best PhD paper Prize (2017)

2014/2015 M.Sc. Pompeu Fabra University, Research in Sociology and Demography

Advisors: Gøsta Esping-Andersen, Bruno Arpino

2009/2013 B.A. PUCMM University, Business

RESEARCH INTERESTS

Social/Geographical Mobility Computational Statistics Demography Social Inequalities

CURRENT POSITIONS

2019- Research Scientist

Laboratory of Digital and Computational Demography Max Planck Institute of Demographic Research

2019- Research affiliate

ERC Project: Institutional Family Demography

Dondena Centre for Research on Social Dynamics and Public Policy

Bocconi University

2019- Scientific collaborator

Sociometric Research Foundation

2018- Research affiliate

Research and Expertise Centre for Survey Methodology

Mentor: Wiebke Weber

CONSULTING

2019- Subcontracting - United Nations Population Division: Development of R package

DDSQLtools, World Population Prospects

PAST POSITIONS

2018/2019 Data Scientist

Kernel Analytics

Publications

Refereed Journal Articles

2018

Esping-Andersen, G. & Cimentada, J. (2018). Ability and Mobility: The Relative Influence of Skills and Social Origin on Social Mobility. *Social Science Research*, Volume 75, Pages 13-31. [Replication files][Open access]

Submitted Articles

2019

Cimentada, **J.** & Klüsener, S. (2019), Exploring the Demographic History of Populations with Enhanced Lexis Surfaces, submitted to *Demographic Research*. [Replication files] [Open access]

WORK IN PROGRESS

Cimentada, **J.** (2018), Unequal Decentralization of Education: An Intervention of the AGE Program on Indigenous Populations in Mexico. In preparation for *Population and Development Review*

Cimentada, **J.** (2017), Does curricular tracking explain global SES gaps? an international comparison of the SES achievement gaps from 2000 to 2015. SocArXiv, 21 Sept. 2017. In preparation for *Research in Social Stratification and Mobility* [Open access]

Cimentada, **J.** & Weber, W. (In preparation), The sqpr package: a gateway for correcting for statistical measurement error.

Cimentada, J. (In preparation), A unified statistical ecosystem to analyze the European Social Survey: an R package.

COMPUTATIONAL SKILLS

Statistics: R, Python, SPSS, Stata, Stan, Excel

Programming: Bash, Git, cron, Web Scraping, API interactions, ssh, Shiny applications, Emacs

Big data: Impala, Hadoop, Spark, Oracle, SQL, PostgreSQL, Airflow

Text processing: Regular Expressions, Tesseract, LaTeX

STATISTICAL SOFTWARE

Scientific and statistical software

measurementfree: Tool to correct correlation and covariance matrices for measurement error [website]

opendataes: Interact with the datos.gob.es API [website]

sqpr: Access the SQP API and adjust statistical models for measurement error [website]

essurvey: Download data from the European Social Survey [CRAN, website]

perccalc: Estimate continuous distributions from categorical variables [CRAN, website]

coauthornetwork: Explore your network of coauthors from your Google Scholar profile [Github]

cimentadaj: Personal package [Github]

Contributions to other statistical software

corrr: Exploring correlations in a 'tidy' format. [Github]

broom: Convert statistical analysis objects into tidy format [Github]

scholar: Extract citation data from Google Scholar. [Github]

Scientific web applications

Exploring the Demographic History of Populations with Enhanced Lexis Surfaces Educational Inequality Around the World

- Commissioned by the Research and Expertise Centre for Survey Methodology:
- * Download Spanish translated data from the European Social Survey
- * SQP: A a Tool for Correction for Measurement and Sampling Error (joint project with GESIS)

Open source Github ranking: R (http://git-awards.com/users/cimentadaj) 3 out of 126 in Madrid 13 out of 482 in Spain

Honors, Awards, and Fellowships

2019	Full scholarship to the Summer Institute in Computational Social Science, Oxford University
2018	Best conference presentation 'National Spanish R Conference', Department of Mathematics, University of Murcia (€200)
2017	Pompeu Fabra EBES grant to "Bayesian Inference and Stan", Newcastle University (€600)
2017	Best PhD paper Prize for the paper "Does curricular tracking explain SES gaps? An international comparison of the SES achievement gaps from 2000 to 2015", Pompeu Fabra University (€300)
2017	Full travel stipend to the Visualization Retreat Rostock, Max Planck Institute of Demography
2016	Pompeu Fabra EBES grant to 'EERA Summer School: Methods and Methodology in Educational Research', Linz University (€600)
2015	Best Master's thesis, Department of Political and Social Science, Pompeu Fabra University

SELECTED PRESENTATIONS

Conference presentations

2019	"An app for the correction of measurement and sampling error in the European Social Survey", European Survey Research Association, Zagreb, 15-19 July
2018	"Interacting with the datos.gob.es API using opendataes", The National Spanish R Conference, Murcia, 22-23 November
	"Ability and Mobility: The Relative Influence of Skills and Social Origin on Social Mobility", European Population Conference, Brussels, 6-9 June
2017	"Visualizing Educational Inequality Around the World: are SES gaps growing over time?", Max Planck Institute for Demographic Research Visualization Retreat, Rostock, 28-29 June
Workshops	
2019	Summer Institute in Computational Social Science, Oxford University, 15-27 June
2019	Applying big data to Institutional Family Demography, Dondena Centre for Research on Social Dynamics and Public Policy, Bocconi University, 3-6 May

Invited Presentations

2018 Downloading European data with essurvey, Charles III University of Madrid (September)

"Does curricular tracking explain cross-national variation in achievement gaps?", Universitat Barcelona (February)

The essurvey package, University of Southampton (January)

2017 Introduction to the tidyverse, PyData Conference, Barcelona (May) [Course]

Presentation meet ups

2019 'Downloading European data with essurvey' and 'Accessing Spanish public data with opendataes', Canary Islands R meetup (March)

2018 Downloading Spanish public data with opendataes, Madrid R meetup (November)

TEACHING AND MENTORING EXPERIENCE

Teaching assistant

2015 Teaching Assistant, Statistics 101 for Political Science with Dr. Bruno Arpino

Graduate Mentoring

Introduction to the tidyverse and functional programming, Econ and Pol Sci Departments, Pompeu Fabra University (March) [Course]

2016 Introduction to R programming and its strengths, RECSM Institute (April) [Presentation]

Getting familiar with R objects, DEMOSOC Research Group (April) [Course]

Short courses

2017- Introduction to R - Barcelona Summer School in Survey Methodology with Basilio Moreno, 2017, 2018, 2019 [Course]

TEACHING INTERESTS

Social/Geographical Mobility; Introductory and Advanced Quantitative Methods; Data Science applied to Social Science; Social Science Research Design; Social Inequalities; Big data and Demography

SCIENTIFIC REVIEWS

Statistical/Software review

rOpensci, Journal of Open Source Software

ACADEMIC SKILLS AND LANGUAGES

Short Methods Courses

2018	Text Mining & Natural language Processing, Department of Mathematics, University of Murcia
2018	Introduction to Bayesian Inference and Stan, Newcastle University
2016	EERA Summer School: Methods and Methodology in Educational Research, Linz University
2016	Analyzing Comparative Longitudinal Survey Data with Multilevel Modelling, RECSM Summer
2016	School Probability Sampling Methods, RECSM Summer School
2015	Causal Inference in Observational Studies, Pompeu Fabra University
2013	Protecting Human Research Participants, National Institute of Health (NIH) of the United
	States

Languages: Spanish (native), English (fluent)

PROFESSIONAL ACTIVITIES AND SERVICE

University/Departamental

2017-2018 Graduate representative PhD program

2017 Co-organizer of the RECSM RonR! meeting group and seminars

2016 Adaptation of the Randomization guide from the Abdul Latif Jameel Poverty

Action Lab (J-PAL) to R. [Link]

Professional Memberships

Comparative and International Education Society

Foundation for Open Access Statistics

International Union for the Scientific Study of Population (IUSSP)

REFERENCES

Gøsta Esping-Andersen Professor of Sociology Bocconi University & Pompeu Fabra University gosta.esping@upf.edu +34 93 542-2649

Sebastian Klüsener

Research Director, Head of the research area Demographic Change and Ageing Federal Institute for Population Research

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Bruno Arpino Associate Professor of Statistics Department of Statistics and Computer Science University of Florence

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Wiebke Weber

Head of the European Social Survey ERIC Core Scientific Team Research and Expertise Centre for Survey Methodology (RECSM) Pompeu Fabra University

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