JORGE CIMENTADA

Contact Information

Pompeu Fabra University
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Personal

Citizenship: Dominican, Spanish

Current Positions

2019-	*External collaborator (programming)*	
	Red.es, Spanish Ministry of Economy	
	Madrid, Spain	
2018-	*Data Scientist*	
	Kernel Analytics	
	Madrid, Spain	
2018-	*Research affiliate & programmer*	
	Research and Expertise Centre for Survey Methodology	
	Mentor: Wiebke Weber	
	Barcelona, Spain	
2015-	*PhD Candidate*	
	Socio-Demographic Research Group	
	Mentors: Gøsta Esping Andersen, Bruno Arpino	
	Barcelona, Spain	

Education

2015-	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: Gøsta Esping-Andersen, Bruno Arpino
Awarded **best PhD paper Prize (2017)**

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

Advisors: Gøsta Esping-Andersen, Bruno Arpino

2009	B.A.	PUCMM University, Business

Research Interests

Social/Geographical Mobility	Computational Statistics	Demography	Social Inequalities

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. (2017), Does curricular tracking explain global SES gaps? an international comparison of the SES achievement gaps from 2000 to 2015. SocArXiv, 21 Sept. 2017. Web [Replication files] [Open access]

Cimentada, J. (2018), Unequal decentralization of education: An intervention of the AGE program targeted towards the indigenous population of Mexico [Replication files]

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

opendataes: Interact with the datos.gob.es API [Github, Package website]
sqpr: Access the SQP API and adjust statistical models for measurement error [Github].
essurvey: Download data from the European Social Survey [CRAN, Package website]
perccalc: Estimate continuous distributions from categorical variables [CRAN, Github]
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
* A web app 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

2018	Best conference presentation 'National Spanish R Conference', Department of Mathematics, University of Murcia (€200)
	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)
	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

Invited Presentations

2018	Interacting with the datos.gob.es API using opendataes, The National Spanish R Conference Department of Mathematics, University of Murcia (November)
	Downloading Spanish public data with opendataes, Madrid R meetup (November)
	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]

TEACHING AND MENTORING EXPERIENCE

Instructor of Record

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

Graduate Mentoring

2017   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

ACADEMIC SKILLS AND LANGUAGES

Short Methods Courses

Year	Course
2018	Text Mining & Natural language Processing, Department of Mathematics, University of Murcia
2018	Introduction to Bayesian Inference and Stan, Newcastle University
2017	Max Planck Institute for Demographic Research Visualization Retreat
2016	EERA Summer School: Methods and Methodology in Educational Research, Linz University
2016	Analyzing Comparative Longitudinal Survey Data with Multilevel Modelling, RECSM Summer School
2016	Probability Sampling Methods, RECSM Summer School
2015	Causal Inference for 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

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University of Florence
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Wiebke Weber
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Research and Expertise Centre for Survey Methodology (RECSM)
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