

# JORGE CIMENTADA

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## CONTACT INFORMATION

Pompeu Fabra University  
Socio-Demographics Research Group  
Ramon Trias Fargas, 25-27  
08005 Barcelona

Phone: +34 697-382-009  
E-mail: [jorge.cimentada@upf.edu](mailto:jorge.cimentada@upf.edu)  
<https://cimentadaj.github.io/>  
*Google Scholar*  
Github: [github/cimentadaj](https://github.com/cimentadaj)

## PERSONAL

Citizenship: Dominican Republic, Spain

## EDUCATION

- |       |       |   |
|-------|-------|---|
| 2015- | Ph.D. | Pompeu Fabra University, Political and Social Sciences<br><i>Fields: Sociology and Social inequalities</i><br>Dissertation: "Educational institutions and their effect on inequality: Three Papers on Educational Systems and Inequality of Achievement and Opportunity"<br>Advisors: Gøsta Esping-Andersen, Bruno Arpino<br>Awarded <b>best PhD paper Prize (2017)</b> |
| 2014  | M.Sc. | Pompeu Fabra University, Research in Sociology and Demography<br>Advisors: Gøsta Esping-Andersen, Bruno Arpino  |
| 2009  | B.A.  | PUCMM University, Business  |

## RESEARCH INTERESTS

Social/Geographical Mobility      Computational Statistics      Demography      Social Inequalities

## CURRENT POSITIONS

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|-------|--|
| 2019- | <i>External collaborator (programming)</i><br>Red.es, Spanish Ministry of Economy  |
| 2018- | <i>Data Scientist</i><br>Kernel Analytics  |
| 2018- | <i>Research affiliate &amp; programmer</i><br>Research and Expertise Centre for Survey Methodology<br>Mentor: Wiebke Weber |

## PUBLICATIONS

### Refereed Journal Articles

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|------|---|
| 2018 | Esping-Andersen, G. & <b>Cimentada, J.</b> (2018). Ability and Mobility: The Relative Influence of Skills and Social Origin on Social Mobility. <i>Social Science Research</i> , Volume 75, Pages 13-31.<br><a href="#">[Replication files]</a> <a href="#">[Open access]</a> |
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### Submitted Articles

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|------|---|
| 2019 | <b>Cimentada, J.</b> & Klüsener, S. (2019), Exploring the Demographic History of Populations with Enhanced Lexis Surfaces, submitted to <i>Demographic Research</i> . <a href="#">[Replication files]</a> <a href="#">[Open access]</a> |
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## 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* [[Replication files](#)]

**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* [[Replication files](#)] [[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,  $\text{\LaTeX}$

## 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](#)

\* [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**

- 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****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

**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**

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**

2017-2019 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**

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 School  
 2016 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](mailto: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  
[sebastian.kluesener@bib.bund.de](mailto:sebastian.kluesener@bib.bund.de)  
0611 75 4345

Bruno Arpino  
Associate Professor of Statistics  
Department of Statistics and Computer Science  
University of Florence  
[bruno.arpino@unifi.it](mailto:bruno.arpino@unifi.it)

Wiebke Weber  
Head of the European Social Survey ERIC Core Scientific Team  
Research and Expertise Centre for Survey Methodology (RECSM)  
Pompeu Fabra University  
[wiebke.weber@upf.edu](mailto:wiebke.weber@upf.edu)  
(34) 93 542 1163

Léa Pessin  
NICHD postdoctoral fellow  
The Pennsylvania State University, Population Research Institute  
[lpessin@psu.edu](mailto:lpessin@psu.edu)  
(814) 826-3987