Carlos G. Poses

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Experience

Data Science & Biostatistics, UMC Utrecht — *Utrecht, Netherlands*
PhD Candidate — *Oct 2024–Currently*

- Evaluation and development of **causal inference** techniques for large-scale electronic health records.
- Daily supervisors: Oisín Ryan and Linda Nab. Promotor: Miriam Sturkenboom.

Utrecht University — *Utrecht, Netherlands*
Teaching & Research Assistant — *July 2023–Currently*

- **R developer** for the densityratio R package, supervised by Thom Volker.
- ODISSEI Social Data Science Team: team's **communication management** (blogposts, website, social media) and organizational tasks, supervised by Erik-Jan van Kesteren.
- **Teaching Assistant** for several courses

Universitat Pompeu Fabra, Research and Expertise Centre for Survey Methodology — *Barcelona, Spain*
Researcher (previously Junior Researcher) — *July 2019 – July 2022*

- **Researcher** (Sept 2020 – July 2022)
  - Analysis of cross-cultural comparability (measurement invariance) and measurement quality (MTMM experiments) of European Social Survey data.
  - Finished job as team leader of ESS work programme: training and supervision of new RECSM members.
  - Writing of scientific reports and papers.
  - ESS pilot experiments, questionnaire design, consulting, data analysis.
- **Junior Researcher** (July 2019 – Aug 2020)
  - Member of the Advanced Survey Quality Methods research group.
  - Data analysis, internal management group tasks, literature reviews.
  - Scientific report writing and supporting research activities.

Education

Msc Methodology and Statistics for the Behavioural, Biomedical and Social Sciences — *Utrecht, Netherlands*
Utrecht University — *Sept 2022 - May 2024*

- **Grade**: Cum Laude (GPA: 8.6)
- **Track:** Applied Data Science (predictive modelling, machine-learning, high-dimensional data, neural networks
- **Thesis:** A Bayesian Synthetic Control Method: Quantifying uncertainty about the causal ef- fect of a policy intervention(supervisors: Erik-Jan van Kesteren & Oisín Ryan)

BA Philosophy, Politics and Economics — *Barcelona & Madrid, Spain*
Universitat Pompeu Fabra, UC3M & UAM — *Sep 2016 - July 2020*

- Interuniveristy degree. 5/8 semesters at UPF; 2/8 semesters at UC3M/UAM. GPA: 8.8/10
- **Thesis**: Content Validity and Measurement Quality of the "Satisfaction With Democracy" Survey Indicator. Grade: 10/10. Became a published paper.
- Erasmus+ Student Sep '19 - Feb '20, Faculty Economics & Business KU Leuven, Belgium

Publications

JOURNAL ARTICLES

Carlos Poses, Melanie Revilla . Measuring satisfaction with democracy: how good are different scales across countries and languages?
European Political Science Review pp. 1–18. 2021

Carlos Poses, Melanie Revilla, Hannah Schwarz, Marc Asensio, Wiebke Weber . Measurement quality of 67 common social sciences questions across countries and languages based on 28 Multitrait-Multimethod experiments implemented in the European Social Survey
Survey Research Methods. pp. 235–256. 2021

Melanie Revilla, Carlos Poses, Oriol Serra, Marc Asensio, Hannah Schwarz, Wiebke Weber . Applying the Estimation Using Pooled Data Approach to the Multitrait-Multimethod Experiments of the European Social Survey (Rounds 1 to 7)
Structural Equation Modeling: A Multidisciplinary Journal pp. 463–474. 2021

Carlos Poses, Wiebke Weber . Pretest of ESS Round 11 Rotating Modules in Lithuania and United Kingdom: Analysis of Completion Time
European Social Survey. 2022

Carlos Poses, Wiebke Weber, Amelie Nickel . Measurement Invariance and Quality of the Attitudes towards Immigration Scale across ESS Rounds 1-9 (2002-2018)
European Social Survey. 2022

Wiebke Weber, Carlos Poses, Sofia Jaime . Three-Group SB-MTMM Experiment with Measures of the Sexism Scale from the Rotating Module "Gender in Contemporary Europe: Rethinking Equality and the Backlash"
European Social Survey. 2022

Carlos Poses, Wiebke Weber . Evaluation of Measurement Quality and Cross-Country Comparison of Complex Concepts [Positive and Negative Affect]
European Social Survey. 2021

Carlos Poses, Wiebke Weber, Hannah Schwarz . Estimating Measurement Quality in Round 9 of the European Social Survey - Results of a Split-Ballot Multitrait Multimethod Experiment
European Social Survey. 2020

Conferences & Presentations

C. Poses, L. Nab, M. Sturkenboom, O. Ryan . To Match or Not to Match? A Comparison of Sequential Trial Emulation Approaches
European Causal Inference Meeting, Ghent, Belgium. 2025

T. Volker, C. Poses, E.-J. Van Kesteren . Densityratio: Fast, Efficient and User-Friendly Density Ratio Estimation in R. Distribution Comparison with Densityratio
ODISSEI Conference, Utrecht. 2024

C. Poses, M. Revilla, M. Asensio, H. Schwarz, W. Weber . An overview of the size of measurement errors of a subset of questions of the European Social Survey
European Survey Research Association 2021 Conference. 2021

C. Poses, H. Schwarz, W. Weber . Estimating measurement quality in Round 9 of the European Social Survey - Results of a Split-Ballot Multitrait Multimethod experiment
European Survey Research Association 2021 Conference. 2021

C. Poses, M. Revilla . Estimating the size of measurement errors of the "Satisfaction With Democracy" Survey Indicator for different scales, countries and languages
RECSM Seminar Series. 2020

Teaching

Teaching Assistant   *Utrecht*
Utrecht University   *July 2023- Jan 2025*
- 5-day course: Causal Data Science. (Summer School 2025, with Oisín Ryan, Wouter Van Amsterdam & Bas Penning de Vries)
- 5-day course: Data Analysis (Summer School 2023, with Maarten Cruyff)
- Intro to R & Reproducibile programming workshops (2024, 4 sessions, with Gerko Vink and Javier Garcia-Bernardo)

Additional Training

2021	**Target Trial Emulation** Harvard School of Public Health, 5 days	*CausaLab*
2021	**Structural Equation Modelling** RECSM Summer School 2021, 8h	*UPF*
2020	**Survey Experiments** RECSM Summer School 2020, 8h	*UPF*
2020	**Causal Inference with Nonexperimental Data** RECSM Summer School 2020, 12h	*UPF*
2020	**Sampling Methods** RECSM Summer School 2020, 8h	*UPF*
2020	**Introduction to R** RECSM Summer School 2020, 8h	*UPF*
2019	**Practical Multilevel Modeling** RECSM Summer School 2019, 12h	*UPF*

Development

densityratio   Contributor to densityratio R package on CRAN. Developed plotting functionality.

Programming & Software

Programming	**R** (proficient), Git/Github, Stan, LaTeX, Basic HTML, CSS & Hugo
Statistical software	SPSS, JASP, Stata, JAGS, MPlus, Lisrel
Others	Quarto, RMarkdown, Overleaf, Microsoft Office (Word, Excel, PowerPoint)

Consultancy

Barcelona Centre for International Affairs   *Barcelona*

CIDOB   *Sep 2020- Jan 2021*
- Online elite survey within the project: "CAScading Climate risks: towards ADaptive and resilient European Societies (CASCADES)".
- Role: Data cleaning, descriptives and visualization.

Catalan government Public Opinion Institute   *Barcelona*

Centre d'Estudis d'Opinió   *Jan 2023*
- Analysis of survey data quality of the first wave of a new online barometer about sociopolitical attitudes (with Melanie Revilla and Carlos Ochoa).
- Role: questionnaire review, first wave data quality analysis (completion times, straightlining, mode effects, non-response, experimental analysis, and more), data cleaning, analysis and visualzation, writing of report and recommendations.

Research Projects

2019-2022 **European Social Survey (ESS) ERIC - Core Scientific Team (CST). PI: Wiebke Weber.**

2019-2022 **Survey Quality Predictor. PI: Wiebke Weber.**

Languages

Professional proficiency   English (fluent), Catalan (C1)

Native proficiency   Galician, Spanish

Others   Learning Dutch, Portuguese