

Camilo A. Cárdenas-Hurtado

CONTACT INFORMATION	Room COL.8.05 Department of Statistics London School of Economics Houghton Street WC2A 2AE, London UK	c.a.cardenas-hurtado@lse.ac.uk
RESEARCH INTERESTS	Statistical and machine learning with latent variable models, Psychometrics, Causal Inference, Categorical data analysis, Survey sampling and design of experiments, Applications in educational testing, psychology, political science, economics.	
ACADEMIC APPOINTMENTS	London School of Economics and Political Science (LSE) , London, UK. LSE Fellow	2023/09 -
EDUCATION	London School of Economics and Political Science (LSE) , London, UK. PhD, STATISTICS (Social Statistics) <ul style="list-style-type: none">• Thesis: <i>Generalised Latent Variable Models for Location, Scale, and Shape Parameters</i> (Supervisors: Prof. Irini Moustaki and Dr. Yunxiao Chen) Universidad Nacional de Colombia (UNAL) , Bogotá D.C., Colombia. MSc, STATISTICS Graduate Diploma (Specialization), STATISTICS BA, ECONOMICS	
PREPRINTS AND WORK IN PROGRESS	A Generalized Additive Partial-Mastery Cognitive Diagnostic Model, with Y. Chen, I. Moustaki. <i>Under review</i> . (<small>R package: <code>gapmCDM</code></small>) L_1 Rotation for Exploratory Generalized Bi-factor Analysis, with T.G Vasiljev, Y. Chen, and I. Moustaki (<i>In preparation</i> , R package: <code>bifacL1rot</code>) Assessing DIF on Asymmetric Item Response Theory Models with Continuous Responses, with D. Molenaar (<i>In preparation</i>) Ordering consistency: Generating indexes using ordinal data for regression analysis, with C. F. Balcázar (<i>In preparation</i>)	
PEER-REVIEWED PUBLICATIONS	Cárdenas-Hurtado, C.A. , Moustaki, I., Chen, Y., Marra, G. (2025) Generalized Latent Variable Models for Location, Shape, and Scale parameters. <i>Psychometrika</i> , 90(3):932-956 (Link , R package: <code>glvmlss</code>). Cárdenas-Hurtado, C.A. , Hernández, M.A., Torres, J.E. (2015), A Statistical Analysis of Heterogeneity on Labour Markets and Unemployment Rates in Colombia. <i>Revista Desarrollo y Sociedad</i> , 75(1):153-196, (Link)	

POLICY PAPERS	<p>Cárdenas-Hurtado, C.A., Hernández, M.A. (2019), Understanding the Consumer Confidence Index in Colombia: A structural FAVAR analysis. <i>Policy paper series - Borradores de Economía</i>, No. 1063. (Link)</p> <p>Cárdenas-Hurtado, C.A., Garavito-Acosta, A., Toro-Córdoba, J. (2018), Asymmetric Effects of Terms of Trade Shocks on Tradable and Non-tradable Investment Rates: The Colombian Case. <i>Policy paper series - Borradores de Economía</i>, No. 1043. (Link)</p> <p>Velasco, A.M., Cárdenas-Hurtado, C.A. (2015), A Macro CGE Model for the Colombian Economy. <i>Policy paper series - Borradores de Economía</i>, No. 863. (Link)</p>
ACADEMIC TALKS	<p>2025: Frontier Research in Educational Measurement (FREMO25, contributed, Oslo, NO); 15th Scientific Meeting of the Classification and Data Analysis Group (CLADAG25, invited speaker, Naples, IT).</p> <p>2024: Brown-bag Statistics Seminar (online invited talk, Pennsylvania State University); International Meeting of the Psychometric Society (IMPS24, contributed, Prague, CZ).</p> <p>2023: Social Statistics Seminar (LSE); Modern Modeling Methods (M3, contributed, CT, US); International Meeting of the Psychometric Society (IMPS23, contributed, MD, US).</p> <p>2022: International Meeting of the Psychometric Society (IMPS22, contributed; travel award, Bologna, IT).</p> <p>2021: Royal Statistical Society International Conference (RSS21, invited symposium, Manchester, UK).</p>
TEACHING EXPERIENCE	<p>London School of Economics and Political Science (LSE)</p> <ul style="list-style-type: none"> • DEPARTMENT OF STATISTICS <ul style="list-style-type: none"> ST102: Elementary Statistical Theory ST201: Statistical Models and Data Analysis ST205: Sample Surveys and Design of Experiments ST211: Applied Regression ST309: Elementary Data Analytics (Lecturer) ST312: Applied Statistics Project ST405/MY455: Multivariate Methods ST416: Multilevel Modelling
SCHOLARSHIPS & AWARDS	<p>Class Teacher Award (LSE): 2022, 2024, 2025.</p> <p>Psychometric Society Travel Award (Best student paper): 2022.</p> <p>MPhil/PhD scholarship (LSE): 2019-2023.</p>
ACADEMIC SERVICE	<p>London School of Economics and Political Science (LSE)</p> <ul style="list-style-type: none"> • Academic Mentor, PhD representative, member of the Equity, Diversity and Inclusion Committee (EDI) and Departmental Teaching Committee (DTC), Mentor for MSc students. <p>Psychometric Society</p> <ul style="list-style-type: none"> • Member of the Diversity, Equity and Inclusion (DEI) Committee (2025-2028).

Editorial work

- Reviewer for: British Journal of Mathematical and Statistical Psychology (x1), Journal of Multivariate Analysis (x1), Psychological Methods (x1).