

David Torres Irribarra

Education

2016 **Doctor of Philosophy, UC Berkeley**
Quantitative Methods and Evaluation Program, Graduate School of Education
Dissertation: *Ordering, Measurement, and Ordinal Measurement: A Pragmatic Perspective*
Supervising Committee: Mark Wilson (Chair), Sophia Rabe-Hesketh & Nicholas Jewell

2010 **Master of Arts in Education, UC Berkeley**

2005 **Licenciatura (Bachelors) in Psychology, Pontificia Universidad Católica de Chile**

Recent Experience

2015– **School of Psychology, Pontificia Universidad Católica de Chile**
▪ Associate Professor
▪ Assistant Professor (2016–2022)
▪ Researcher at MIDE UC Measurement Center (2015–2016)

2007–2015 **Berkeley Evaluation & Assessment Research Center**
▪ Graduate Student Researcher; IT Director *ad interim* (2012–2014)

Recent Grants

2022–2024 **Millennium Nucleus on Intergenerational Mobility: From Modelling to Policy**
▪ Associate Researcher, Millennium Science Initiative NCS2021072

2019–2022 **Development and application of psychometric models based on ordered and partially ordered classes**
▪ Principal Investigator, FONDECYT Iniciación 11180792

2018–2019 **Espacios de Conocimiento en Matemáticas: Cognición, Medición y Evaluación de Aprendizajes al Servicio de la Diversidad en el Aula.**
▪ Young Researcher, FONDEF D17I0220

Selected Publications

2023 **The challenge of defining and interpreting dimensionality in educational and psychological assessments**
Torres Irribarra, D. & Arneson, A.E.
*Measurement, 113*430

2023 **The ephemeral nature of wording effects**
Ponce, F., Torres Irribarra, D., Vergés, A. & Arias, V.
*Journal of Personality and Social Psychology: Personality Processes and Individual Differences, 115*10

2022 **Continuation Ratio Model for Polytomous Items Under Complex Sampling Design**
Carrasco, D., Torres Irribarra, D. & González, J. In Quantitative Psychology: The 86th Annual Meeting of the Psychometric Society. New York: Springer.

2021 **A Pragmatic Perspective of Measurement**
Torres Irribarra, D. Cham, Switzerland: Springer

2021 **Wording Effects in Assessment: Missing the Trees for the Forest**
Ponce, F., Torres Irribarra, D., Vergés, A. & Arias, V.
Multivariate Behavioral Research, 10.1080/00273171.2021.1925075

2021 **The Portfolio in the National Teacher Evaluation System in Chile: Collecting Evidence of Validity as Part of the Instrument Construction Process**
Torres Irribarra, D. & Zapata, A. In J. Manzi, S. Taut y M.R. García (Eds.), *Validity of educational assessments in Chile and Latin America*. Springer

2020 **Machine learning for policing: a case study on arrests in Chile**
van'Wout, E., Pieringer, C., Torres Irribarra, D., Asahi, K., Larroulet, P.
Policing and Society, 10.1080/10439463.2020.1779270

2018 **The Rasch Model**
 Torres Irribarra, D. In The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation (pp. 1370-1373). Thousand Oaks, California: SAGE

2018 **The Quality of Measurement Results in Terms of the Structural Features of the Measurement Process**
 Maul, A., Mari, L., Torres Irribarra, D. & Wilson, M. *Measurement*, 116 611-620.

2017 **Measuring Well What is Ill Defined?**
 Torres Irribarra, D. *Measurement: Interdisciplinary Research and Perspectives* 15(2), 83-85.

2017 **Quantities, Quantification, and the Necessary and Sufficient Conditions for Measurement**
 Mari, L., Maul, A., Torres Irribarra, D., & Wilson, M. *Measurement*, 100, 115-121.

2016 **Explaining Teacher Turnover: School Cohesion and Intrinsic Motivation in Los Angeles**
 Fuller, B., Waite, A., & Torres Irribarra, D. *American Journal of Education* 122(4), 537-567.

2016 **On the Conceptual Foundations of Psychological Measurement**
 Maul, A., Torres Irribarra, D., & Wilson, M. *Measurement*, 79, 311-320.

2015 **Modeling For Directly Setting Theory-Based Performance Levels**
 Torres Irribarra, D., Diakow, R., Freund, R. & Wilson, M. *Psychological Test and Assessment Modeling*, 57(3), 394-422.

2015 **Improving Middle School Quality in Poor Countries**
 McEwan, P. J., Murphy-Graham, E., Torres Irribarra, D., Aguilar, C., & Rapalo, R. *Educational Evaluation and Policy Analysis*, 37(1), 0113-137.

2013 **Some Comments on Representing Construct Levels**
 Diakow, R., Torres Irribarra, D., & Wilson, M. In *Psychometric Models: New Developments in Quantitative Psychology* (pp. 319-334). New York: Springer.

2012 **Perspectives on Methodological Issues: Assessment and Teaching of 21st Century Skills**
 Wilson, M., Bejar, I., Scalise, K., Templin, J., Wiliam, D., & Torres Irribarra, D. In *Assessment and Teaching of 21st Century Skills* (pp. 67-141). New York: Springer.

Selected Presentations

April 2023 **Some Remarks on the Foundational Competencies in Educational Measurement**

- 2023 NCME Annual Meeting, Chicago, Illinois

June 2022 **The challenge of defining and interpreting dimensionality in educational and psychological contexts**

- Measurement at the Crossroads 2022 - Measuring and Modeling, Milan, Italy

April 2022 **A Pragmatic Perspective of Measurement**

- 2022 NCME Annual Meeting, San Diego, California

April 2019 **The BEAR Assessment System Software 2.0 (BASS)**

- with Mark Wilson and Karen Draney, 2019 NCME Annual Meeting, Toronto, Canada

April 2017 **Causal Interpretations and the Interpretations of Causal Mechanisms in Measurement**

- with Andrew Maul, 2017 NCME Annual Meeting, San Antonio, Texas

Selected Consultancies and Advisories

2023 **Longitudinal analysis of ELPI 2010-2017**

- Project leader for CENTRE team consulting for UNICEF-Chilean Ministry of Social Development

2022 **Comparability of National Teacher Assessment Results**

- Psychometric Consultant for the National Teacher Assessment Program

2021 **Member of the technical committee on access to higher education**

- Convened by the Chilean Undersecretary of Higher Education

2020 **Methodological advisor for the Committee on Accreditation of Pedagogy Programs**

- Convened by National Accreditation Commission

2017-18/2021 **Encuesta Longitudinal de Primera Infancia (ELPI) – 3rd Wave**

- Psychometric consultant for UNICEF-Chilean Ministry of Social Development