

# Alfonso Miranda

## Coordinates

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<i>Address</i>	División de Economía, Centro de Investigación y Docencia Económicas (CIDE), A.C, sede Región Centro. Circuito Tecnopolo Norte 117, Aguascalientes 20313, México.
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<i>Languages</i>	Spanish (native), English, French (basic).

## Current positions

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<i>2012 – present</i>	<b>Professor of Economics</b> , Centre for Economic Teaching and Research (CIDE), México City, México.
<i>2016 – present</i>	<b>Director</b> , Program for Longitudinal Studies, Experiments, and Surveys (PANEL). Centro de Investigación y Docencia Económicas AC (CIDE), México.
<i>2012 – present</i>	<b>National Researcher Level III</b> , National Council of Science and Technology (CONACYT), México.
<i>2018 – presente</i>	<b>Regular member</b> , Mexican Science Academy, México.
<i>2007 – present</i>	<b>Research fellow</b> <a href="#">Institute for the Study of Labor (IZA)</a> , Germany.
<i>2010 – present</i>	<b>External Affiliate</b> , <a href="#">Health, Econometrics and Data Group</a> University of York, UK.
<i>2018 – present</i>	<b>Research fellow</b> <a href="#">Global Labor Organization (GLO)</a> .

## Education

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<i>2000 – 2004</i>	<b>PhD in economics</b> , University of Warwick, UK. Thesis Title: 'An analysis of fertility behaviour in México.' Supervisors: Professor Wiji Arulampalam and Professor Mark Stewart. Examiners: Professor John Ermisch (ISER, Essex) and Dr. Jeremy Smith (Warwick).
<i>1999 – 2000</i>	<b>MSc in economics</b> , University of Warwick, UK. Dissertation Title: 'Modelling fertility using overlapping generation models: a study of the effects of capital taxation.' Supervisor: Professor Myrna Wooders.
<i>1996 – 1998</i>	<b>MA in economics</b> , Centre for Research and Teaching in Economics (CIDE), México. Dissertation Title: 'Environmental Regulation In The Context Of Two Pollution Sources'. Supervisor: Dr. Francisco Venegas Martínez.
<i>1992 – 1996</i>	<b>BSc in Economics (distinction)</b> , National Autonomous University of México (UNAM), México.

## *Past positions*

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- 2008 – 2012 **Lecturer in social statistics**, Department of Quantitative Social Science, Institute of Education, University College London, UK.
- 2004 – 2008 **Lecturer in economics**, School of Economic and Management Studies, Keele University, UK.
- 2011 **Visiting scholar**, Graduate School of Education, University of California Berkeley, USA (January).
- 2010 **Visiting scholar**, Institute for Economic Research, National Autonomous University of México (UNAM), México (September).
- 2010 **Visiting scholar**, Institute for Economic Research, National Autonomous University of México (UNAM), México (September).
- 2007 **Visiting scholar**, Department of Economics, Iberoamerican University, México (June-September).

## *Editorial service*

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- 2020 – *presente* **Editor**, *Latin American Economic Review*, CIDE.
- 2018 – *presente* **Editorial board member**, *Sobre México*, Universidad Iberoamericana.

## *Participation in external committees*

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- 2018 – *present* Member of the **Technical Group of High Specialists for measuring Income and welfare in the households of Mexico**, National Institute for Statistics and Geography (INEGI), México.
- 2016 – 2018 Member of the **Extended Technical Group INEGI-CONEVAL**, National Institute for Statistics and Geography (INEGI) and National Council for the Evaluation of Social Policy, México.
- 2018 – 2018 Member of the **Evaluation committee for the 2018 call of the Basic Science Fund of CONACYT**, National Council of Science and Technology (CONACYT), México.
- 2015 – 2015 Member of the **Evaluation committee of the 2015 call renewing the National Program of Quality Posgraduates (PNPC)**, full-time modality, National Council of Science and Technology (CONACYT), México.

## *Research interests*

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- Nonlinear econometric models for cross-section and panel data
- Health economics.
- Education economics.
- Demographic economics.
- Labour Economics.

Over the years, my research has been particularly focused in the development of strategies to deal with problems of sample selection, endogenous treatment, and endogenous participation for ordinal, count, and dichotomous variables. I have also interest in quantile regression, hazard models, generalised linear latent and mixed models, and in the development of methods to estimate non linear dynamic models.

- Sonia R. Bhalotra, S.R., Diaz-Cayeros, A., Miller, G., Miranda, A., Venkataramani, A.S. (2021). Urban Water Disinfection and Mortality Decline in Lower-Income Countries, *American Economic Journal: Economic Policy* (in press).
- Peralta-Torres, Y., Aguilar-Rodriguez, A., Dávila González, O., Miranda, A. (2021). Dimensionality and Reliability Assessment of a Field Implementation of the Big Five in Mexican Children. *Journal of Psychoeducational Assessment* (in press).
- Miranda, A., Dávila González, O., Aguilar-Rodriguez, A., A. Aréchar, A., Zizumbo-Colunga, D., Rodríguez-Martínez, Y., Sainz-Santamaría, J. (2020). [The Aguascalientes longitudinal study of child development: Baseline and first results](#). *Longitudinal and Life Course Studies* **11** (3):409-423.
- Miranda, A., Zhu, Yu. (2020). [The Effect of Deficiency at English on Female Immigrants' Wage in the UK: correcting for measurement error, endogenous treatment, and sample selection bias](#). *Applied Economics Letters* **28** (5):349-353 .
- Miranda, A., Aguilar-Rodriguez, A., Zizumbo-Colunga, D., Sainz-Santamaría, J. (2019). [Diversidad y discriminación en las empresas del sector servicios de la Ciudad de México](#). Libro editado por CONAPRED.
- Aguilar-Rodriguez, A., Miranda, A., Zhu, Y. (2018). [Decomposing the language pay gap among the indigenous ethnic minorities of Mexico: is it all down to observables?](#). *Economics Bulletin* **38** (2):689-695.
- Miranda, A., Sainz-Santamaría, J. (2018). [Incentivos, error de medición y estimación de la pobreza en México](#). *Realidad, Datos y Espacio. Revista Internacional de Estadística y Geografía* **9**: 240-257.
- Unger-Saldaña, K., Ventosa-Santaulària, D., Miranda, A., Verduzco-Bustos, G. (2017). [Barriers and Explanatory Mechanisms of Delays in the Patient and Diagnosis Intervals of Care for Breast Cancer in Mexico](#). *The Oncologist* **22**:1-14.
- De Melo, G., Machado, A., Miranda, A. (2017). [El impacto en el aprendizaje del programa Una Laptop por Niño. La evidencia de Uruguay](#). *El Trimestre Económico* **84** (334):383-409
- Unger-Saldaña, K., Miranda, A., Zarco-Espinosa, G., Mainero-Rachelous, F., Bargalló-Rocha, E., Lázaro-León, J.M. (2015). [Health system delay and its effect on clinical stage of breast cancer: a Multicenter Study](#). *Cancer* **121** (13): 2198-2206.
- Shehzad, A., Littlewood, E., McMillan, D., Delgadillo, J., Miranda, A., Croudace, T., Gilbody, S. (2014). [Heterogeneity in patient-reported outcomes following low-intensity mental health interventions: a multilevel analysis](#). *PLoS ONE* **9**(9).
- Miranda, A., Rabe-Hesketh, S. (2014). [Missing ordinal covariate with informative selection](#). *Journal of the Royal Statistical Society Series A* **177** (2):319–344.
- Miranda, A., Zhu, Yu (2013). [English Deficiency and the Native-Immigrant Wage Gap](#). *Economics Letters* **188**(1): 38-41.
- Miranda, A. (2013). Un modelo de doble valla para datos de conteo y su aplicación en el estudio de la fecundidad en México. En: [Aplicaciones en Economía y Ciencias Sociales con Stata](#), *Stata Press*
- Bratti M. and Miranda A (2011). [Endogenous treatment effects for count data models with endogenous participation or sample selection](#). *Health Economics* **20** (9):1090–1109.
- Miranda A (2011). [Migrant networks, migrant selection, and high school graduation in México](#). *Research in Labor Economics* **33**: 263–306.
- Dearden L., Miranda A, and Rabe-Hesketh S (2011). [Measuring school value added with administrative data: the problem of missing variables](#). *Fiscal Studies* **32** (2): 263–278.
- Bratti M. and Miranda A (2010). [Non-pecuniary returns to higher education: the effect on smoking intensity in the UK](#). *Health Economics* **19** (8): 906-920
- Miranda A. (2008) [Planned fertility and family background: a quantile regression for counts analysis](#). *Journal of Population Economics* **21** (1): 67–81.
- Miranda A. (2006) [Are young cohorts of women delaying first birth in México?](#) *Journal of Population Economics* **19** (1): 55–70.

- Miranda A., and Rabe-Hesketh S. (2006) [Maximum likelihood estimation of endogenous switching and sample selection models for binary, count, and ordinal variables](#). *Stata Journal* 6 (3): 285–308.
- Miranda A. (2004) [FIML estimation of an endogenous switching model for count data](#). *Stata Journal* 4 (1): 40–49.
- Miranda A., and Escobedo J. (1998) La racionalización de la industria de fibras químicas. *El Mercado de Valores* 58 (9): 34–43.

## Grants and consultancy

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- Determinants of school performance and education inequality in Mexico: lessons we can learn from the baseline of the Longitudinal Study of Child Development in Aguascalientes (EDNA). **Newtown Mobility Grant** 2018-2019, Co-I: Yu Zhu, Dundee.
- Benefits of inclusion in the private sector: diversity and discrimination in the workplace and its consequences in the private sector (2016-2017), **National Council for Preventing the Discrimination (CONAPRED)**. Coordinator and Principal Investigator, Co-I: Adriana Aguilar Rodríguez, Jaime Sainz Santamaría, Daniel Zizumbo-Colunga
- Cost-effectiveness Evaluation of the Seguro Popular Program (Septiembre 2012–Noviembre 2012), **National Council for Health and Social Protection (CNPSS)**, México. Coordinator and Principal Investigator; Co-I Nelly Aguilera, CISS; Co-I César Velázquez, Iberoamerican U.
- ¿What is the value of being bilingual in Mexico? Indigenous language, school desertion, employment probability and health among Mexican young. Principal Investigator. **Repatriation Fund CONACYT** 2012-2013 (Co-I Yu Zhu, Kent).

## Postgraduate supervision

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### MSc

- Issac Medina Martinez (2017/2018). 'Effects of unobserved heterogeneity of bicycle commuters in the willingness to pay for bicycle infrastructure'. Msc in Environmental Economics, CIDE.
- Valeria Gracia Olvera (2016/2017). 'Estimación de la disposición a pagar ex ante y ex post por los servicios recreativos de un parque en Aguascalientes'. Msc in Environmental Economics, CIDE.
- Rebeca Buendía Muñoz (2012/13). 'The effect of the Programa Nacional de Alcolometría on traffic accidents in México. MSc in Economics, CIDE.
- Damián Arévalo Miss (2012/13). 'Heterogeneity in the crowding out of private transfers in the program me 70 y Más'. MSc in Economics, CIDE.
- Roshnee Prayag-Bessoondial (2010/12). 'Does Prior Knowledge of Mathematics Contribute to the Performance of Economics Students at Graduation? A Study of the University of Mauritius'. Master's degree in Educational and Social Research.
- Shen Lumin (2007/08). 'Capital Asset Pricing Model For The Stock Exchange In China'. MSc in Finance and Management, Keele.
- Zhou Xizhen (2007/08). 'An Evaluation Of Weekend Effects In Daily Stock Market Returns.' MSc in Finance and Management, Keele.
- Gao Yuexin (2005/06). 'Estimating The Relationship Between Risk And Return'. MSc in Finance and Management, Keele.

## Awards, and scholarships

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### Awards

- Gabino Barreda medal. To the best 1991–1996 BSc student in economics at the National Autonomous University of México (UNAM), campus Acatlán.

- Distinction. BSc in economics. National Autonomous University of México, 1996.
- Distinction. To the best 4th semester student in the MA in economics. Centre for Research and Teaching in Economics (CIDE), 1998.
- Distinction. MSc in economics dissertation. University of Warwick, 2000.

### Scholarships

- CONACYT scholarship (USA \$ 80,000 for four years). To pursue MSc and PhD in economics at the University of Warwick, 1999-2003.
- CONACYT scholarship (USA \$ 7,000 for two years). To pursue MA in economics at the Centre for Research and Teaching in Economics (Centro de Investigación y Docencia Económicas (CIDE)), 1996-1998.
- Mexican Science Academy scholarship. IV summer of research, 1994. Supervisor: Dr. Jaime Aboites Aguilar, Economics Department, Metropolitan University Xochimilco, México
- Mexican Science Academy scholarship. III summer of research, 1993. Supervisor: Antonio Yunez-Naude, Centre for Economic Studies, The College of México, México.
- Academic exchange grant. 'The impact of demographic changes on pension systems, economic growth, and international capital markets' (Co-investigator). British German Academic Research Collaboration Programme, 2008-2009.
- IZA conference grant. Fourth annual migration meeting (AM<sup>2</sup>), 2007. Bonn University, 2007.

## *Teaching experience*

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### Quantitative methods

- Applied Microeconometrics. MSc in Environmental Economics (CIDE 2015-2016).
- Statistics II. BSc in Public Policy core course (CIDE 2015-2016).
- Statistics II. BSc in Economics core course (CIDE 2014).
- Applied Microeconometrics. MSc in Economics module (CIDE 2013, 2014).
- Econometrics II (microeconometrics). MSc in Economics core module (CIDE 2012).
- Quantitative Methods III. MSc core module (IoE 2011).
- Event history analysis, 3 day postgraduate training course (IoE and Stirling, 2009)
- Longitudinal data analysis, 3 day postgraduate training course (IoE and Cardiff, 2009–2010)
- Economic and business forecasting (lectures and tutorials), undergraduate third year module (Keele, 2004–2005).
- Econometrics II (class tutor), undergraduate second year core module (Warwick 2002–2004).

### Economics

- Microeconomics I, undergraduate first year core module (Keele, 2007–2008).
- Microeconomics II, undergraduate second year core module (Keele, 2004–2006).
- Contemporary issues in economics, undergraduate second year core module (Keele 2006–2007).
- Industrial economics (class tutor), postgraduate module for students in the MA in Urban Studies (México, 1997).

### Finance

- Topics in applied finance, undergraduate second year core module (Keele, 2004–2008).
- Financial mathematics, MSc core module (Keele, 2005–2006).
- Quantitative methods in finance, MSc core module (Keele 2006–2007).

## *Refereeing*

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- Journal of Applied Econometrics.
- Health Economics.
- Journal of Human Resources
- Oxford Bulletin of Economics and Statistics.
- Demography.
- Journal of Population Economics.
- International Migration Review.
- Labour Economics.
- Journal of the Royal Statistical Society.
- Population Studies.
- Journal of Human Capital
- Review of the Economics of the Household.
- Education Economics.
- Population Studies.
- Biometrical Journal.
- Research in Labor Economics.
- Communications in Statistics.
- Stata Journal.
- Latin America Economic Review.
- El Trimestre Económico.

## *Conference organisation*

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- Organiser. CIDE-Stata Public Lecture in Statistics and Econometrics, Ciudad de México. International guest: Jeffrey Wooldridge (Michigan State).
- Organiser. International Seminar on Design, Collection, and Analysis of Longitudinal Data in Mexico 2015, Aguascalientes. International guests: Petra Todd (Universidad de Pennsylvania), Lucinda Platt (LSE), Rebeca Wong (U de Texas), David Weir (SRC Michigan), Paula Fomby (SRC Michigan), Guillermina Jasso (NYU), David Bravo (U Católica de Chile), Adriana Camacho (U de los Andes), Lisa Calderwood (CLS UCL).
- Chair of the scientific committee. First Stata Users Group Meeting México México City, April 2009 (invited lecture: Prof. Sophia Rabe-Hesketh, Berkeley).
- Chair of the scientific committee. 2010 Stata Users Group Meeting in México. México City, April 2010 (invited lecture: Prof. Pravin K. Trivedi, Indiana).
- Chair of the scientific committee. 2011 Stata Users Group Meeting in México. México City, May 2011 (invited lecture: Prof. A. Colin Cameron, University of California — Davis).
- Member of the scientific committee. 2013 Stata Users Group Meeting in México. México City, (invited lecture: Prof. Christopher Baum, Boston College).
- Member of the scientific committee. 2014 Stata Users Group Meeting in México. México City, (invited lecture: Prof. Joseph V. Terza, University-Purdue University).

## *Administration Experience*

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- Member of the Academic Council of CIDE (2016-present).
- DoQSS Working Papers series editor and administrator (IoE 2008-2012).
- Seminar co-ordinator (Keele 2006).
- International exchange students tutor (Keele 2005-2008).
- First year tutor (Keele).

## *Professional affiliations*

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- Member of the Mexican Science Academy.
- Member of the Econometric Society.
- Member of the European Society for Population Economics.
- Member of the Royal Economic Society.
- Member of the Latin American and Caribbean Economic Association.

## *References*

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- **Professor Wiji Arulampalam** (PhD supervisor).  
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University of California, Berkeley,  
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