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## RAQUEL BERNAL

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### EDUCATION

New York University	Economics	Ph.D.	2003
New York University	Economics	M.A.	2001
Universidad de los Andes, Colombia	Economics	M.A.	1996
Universidad de los Andes, Colombia	Economics	B.Sc.	1995

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### PROFESSIONAL INTERESTS

Applied Microeconomics, Education, Health and Labor Economics, Econometrics.

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### CURRENT AND PAST APPOINTMENTS

2022-Present	University President and Economics Professor, Universidad de los Andes.
2021-2022	Acting President and Economics Professor, Universidad de los Andes.
2019-2021	Vice President for Academic Affairs and Economics Professor, Universidad de los Andes.
2017-2019	Professor, Universidad de los Andes, Economics Department, Bogotá, Colombia.
2014-2017	Professor and Director of the Center for the Study of Economic Development (CEDE), Universidad de los Andes, Economics Department, Bogotá, Colombia.
2012-2014	Associate Professor and Director of the Center for the Study of Economic Development (CEDE), Universidad de los Andes, Economics Department, Bogotá, Colombia.
2007-2012	Associate Professor, Universidad de los Andes, Economics Department, Bogotá, Colombia.
2006-2007	Assistant Professor, Universidad de los Andes, Economics Department, Bogotá, Colombia.
2003-2007	Assistant Professor, Northwestern University, Economics Department, Evanston, IL., U.S.
2003-2006	Faculty Fellow, Institute for Policy Research, Northwestern University, Evanston, IL., U.S.
2000-2003	Research Assistant, New York University, Economics Department, New York, NY., U.S.
1999	Research Assistant, Department of Economics, Universidad de los Andes, Bogota, Colombia.
1996-1998	Research Assistant, Fedesarrollo, Colombia.
1994	Research Assistant, Research Assistant. Banco de la Republica; Bogota, Colombia.

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### OTHER ACADEMIC APPOINTMENTS AND AFFILIATIONS

2021-present	JPAL affiliated researcher
2018-2021	JPAL LAC invited researcher
June-Sept 2018	Visiting Research Fellow Institute for Fiscal Studies, London, U.K.
2013-2015	Forum member “Investing in Young Children Globally” The National Academies, U.S.
2013-present	Research Fellow National Institute for Early Education Research, Rutgers University
July 2016	Visiting scholar, SIPA Columbia University (New York).
June-July 2015	Visiting scholar, Inter-American Development Bank, Washington D.C.
June-July 2013	Visiting scholar, Inter-American Development Bank, Washington D.C.
June 2007	Visiting Scholar, CenSoc University of Technology in Sydney.
June 2009	Visiting Scholar, New York Federal Reserve Bank.
May 2010	Visiting Scholar, CIREQ Institute, University of Montreal.
June 2011	Visiting Scholar, Institute for Fiscal Studies – London.

## AWARDS AND HONORS

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- 2018 *British Academy* Visiting Fellowship
- 2013 *Juan Luis Londoño* medal for economist younger than 40 whose research has contributed to the well-being of Colombians.
- 2011 Econometric Society's Invited *Simonsen Lecture* at LACEA-Chile for successful young scholars in Latin America
- 2000 Graduate Fellowship, New York University.
- 1998 Lauchlin Currie Fellowship for Graduate Studies, Colombian Central Bank.

## PUBLICATIONS: ARTICLES AND BOOKS

### REFEREED JOURNAL ARTICLES

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- Andrew, A., Attanasio, O., Bernal, R., Cardona, L., Krutikova, S. and Codina-Rubio, M. (2023) Preschool Quality and Child Development. *Journal of Political Economy* *Forthcoming*.
- Bernal, R., Gómez, M.L., Pérez, S., and Baker-Henningham, H. (2023) Implementation Quality of an Early Childhood Parenting Program in Colombia and Child Development. *Pediatrics*, Vol. 151 Issue Supplement 2.
- Laajaj, R., Webb, D., Aristizabal, D., Behrentz, E., Bernal, R., Buitrago, G., Cucunuba, Z., de la Hoz, F., Gaviria, A., Hernandez, L.J., de los Rios, C., Ramirez, A., Restrepo, S., Schady, N. and Vives, M. (2022) Understanding how socioeconomic inequalities drive inequalities in COVID-19 infections. *Scientific Reports*.
- Sotaquirá, L., Backhaus, I., Sotaquirá, P., Pinilla-Roncancio, M., González-Uribe, C., Bernal, R., Galeano, J., Mejía, M., La Torre, G., Trujillo, E., Suárez, D., Duperly, J. and Ramirez, A. (2022). Social Capital and Lifestyle Impacts on Mental Health in University Students in Colombia: an observational study. *Frontiers in Public Health*, section Public Mental Health.
- Attanasio, O., Baker-Henningham, H., Bernal, R., Meghir, C., Pineda, D. y Rubio-Codina, M. (2021). Early Stimulation and Nutrition: The Impacts of a Scalable Intervention. *Journal of the European Economic Association*, January.
- Gómez, M.L., Baker-Henningham, H. y Bernal, R. (2021) Qualitative Evaluation of a Scalable Early Childhood Parenting Programme in Rural Colombia. *Child: Care, Health & Development*, november.
- Ramirez, A., Hernández, L.J., Tamayo, G., Contreras, S., Restrepo, S., Laajaj, R., Buitrago, G., Rueda, Y., Caballero, Y., Vives, M., Osorio, E., Sarmiento, I., Rodriguez, D., Leon, L., Bernal, R., Rios, S., Salas, L., Gaviria, A., Behrentz, E. (2021) [Factors Associated With SARS-CoV-2 Infection in Bogotá, Colombia: Results From a Large Epidemiological Surveillance Study](#). *The Lancet Regional Health – Americas*, Volume 2, October, 100048.
- Laajaj, R. de Los Rios, C., Sarmiento-Barbieri, I., Aristizabal, D., Behrentz, E., Bernal, R., ... and Duncan Webb (2021) [COVID-19 spread, detection, and dynamics in Bogota](#), Colombia. *Nature Communications*, 12, Article number: 4726.
- Betancur, L., Maldonado, C., Votruba-Elizabeth and R. Bernal (2020) Measuring preschool quality in low- and middle-income countries: Validity of the ECERS-R in Colombia. *Early Childhood Research Quarterly*. Volume 54, 1st quarter 2021, pp. 86-98.
- Kohli-Lynch, M., Ponce Hardy, Bernal, R., V., Bhopal, S., Brentani, A., Cavallera, V., ... (2020) Human resources and curricula content for early child development implementation: multicountry mixed methods evaluation. *British Medical Journal Open*, Vol 10, Issue 4.
- Nores, R., Bernal, R. and Barnett, S. (2019) Center-based care for Infants and Toddlers: the Aeiotu Randomized Trial. *Economics of Education Review* Vol. 72: 30-43.
- Milner, K., Bernal, R., Bhopal, S., Brentani, A., Rebello Britto, P., Dua, T.... (2019) Contextual design choices and partnerships for scaling early child development programmes. *Archives of Disease in Childhood*. Vol. 104, issue suppl 1.
- Bernal, R. and Ramírez, S. (2019) Improving the quality of early childhood care at scale: the effects of '*From Zero to Forever*'. *World Development*. Vol. 118: 91-105.

- Bernal, R., O. Attanasio, X. Peña and M. Vera (2019) The Effects of the Transition from Home-based Childcare to Center-based Childcare in Colombia. *Early Childhood Research Quarterly* 47:418-431.
- Nores, M., Figueras-Daniel, A., M.A. Lopez and Bernal, R. (2018) Implementing aeioTU: Quality improvement alongside an efficacy study. Learning while growing. *Annals of the New York Academy of Science*, Vol. 1419, May.
- Bernal, R., M. Eslava, M. Meléndez and A. Pinzón (2017) Switching from Payroll Taxes to Corporate Income Taxes: Firms' Employment and Wages after the Colombian 2012 Tax Reform. *ECONOMIA the journal of LACEA*, Fall issue.
- Bernal, R. (2015) The Impact of a Vocational Education Program for Childcare Providers on Children's Well-being. *Economics of Education Review*, 48: 165-183.
- N. Schady, J. Behrman, M.C. Araujo, R. Azuero, R. Bernal, D. Bravo, F. Lopez-Boo, K. Macours, D. Marshall, C. Paxson, and R. Vakis (2015) Wealth gradients in early childhood cognitive development in five Latin American countries. *Journal of Human Resources* Spring; 50(2): 446-463.
- Amador, D., R. Bernal and X. Peña (2013) The rise in female labor participation in Colombia: fertility, marital status or education? *Ensayos de Política Económica* Vol. 31, Number 71, June.
- Bernal, R. and Fernández, C. (2013) Subsidized child care and child development in Colombia: Effects of Hogares Comunitarios de Bienestar as a function of timing and length of exposure. *Social Sciences & Medicine* 97: 241-249.
- Bernal, R. and Amador, D. (2012) Marriage vs. Cohabitation: The Effects on Children's Well-being. *El Trimestre Económico*, vol LXXIX (3), no. 315, July-Sept. 2012.
- Bernal, R. and Keane, M.P. (2011) Child Care Choices and Children's Cognitive Achievement: The Case of Single Mothers. *Journal of Labor Economics*, 29:3, July.
- Bernal, R. and Keane, M.P. (2010) Quasi-structural Estimation of a Model of Child Care Choices and Cognitive Ability Production. *Journal of Econometrics*, vol. 156(1), pp 164-189.
- Bernal, R. (2009) The Informal Labor Market in Colombia: Identification and Characterization. *Desarrollo y Sociedad*, No. 63.
- Bernal, R. (2008) The Effect of Maternal Employment and Child Care on Children's Cognitive Development. *International Economic Review*, Vol. 49, No. 4, pp. 1173-1209.
- Bernal, R. and Fruttero, A. (2008) Parental Leave Policies, Welfare and the Distribution of Income. *Journal of Population Economics*, 21: 779-825.
- Bernal, R. (2003) Monetary Policy Rules in Practice: The Case of Colombia. *Desarrollo y Sociedad*, No. 51, pp. 37-53.
- Bernal, R. and M. Cárdenas (1999) Changes in the Distribution of Income and the New Economic Model in Colombia. *Reformas Economicas*, No. 36, ECLAC.
- Bernal, R. and J. Núñez (1997) Unemployment in Colombia: natural rate, cyclical and structural unemployment and the duration of unemployment (1976-1998). *Ensayos sobre Política Económica*, Banco de la República, December.

## BOOKS

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- Martínez, M.A., and Quintero, C. (2015) *Situación de Niñas y Niños Colombianos Menores de Cinco Años entre 2010 y 2013*. ISBN 978-958-774-175-9. Editorial Kimpres.
- Bernal, R. and X. Peña. (2012). Guía Práctica para la Evaluación de Impacto. [*Practical Guide for Impact Evaluation*], second edition. Ediciones Universidad Católica, Santiago, Chile.
- Bernal, R. and X. Peña. (2011). Guía Práctica para la Evaluación de Impacto. [*Practical Guide for Impact Evaluation*]. Ediciones Uniandes, Bogotá, Colombia.
- Bernal, R. and A. Camacho (2011). La Importancia de los Programas de Primera Infancia en Colombia. [*The Importance of Early Childhood Programs in Colombia*]. Imprenta Nacional de Colombia.

## CHAPTERS IN BOOKS

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- Barnett, S., Bernal, R. and Nores, M. The Contributions of Economics to the Early Childhood Field. (2020) In Gullo, D. y Graue, M.E. (eds). *The Sciences of Early Childhood Education: From Diverse Perspective to Common Practices*, Routledge Ed.
- Bernal, R. Pulido, X., Sánchez, F. and Sánchez, L. (2018). “Decisiones de vida de los jóvenes en Bogotá: ¿Pobreza, habilidades o comportamientos de riesgo? En: Novella, R., Repetto, A., Robino, C. y Rucci, G. (eds) *Millennials en América Latina y el Caribe: ¿Trabajar o Estudiar?*”. ISBN 978-1-59782-338-8, Banco Interamericano de Desarrollo, pgs. 173-206.
- Bernal, R. (2016) “Todo Empieza en Casa: El Papel de la Familia” En: Berniell, L. y Mata, D. eds. *Más Habilidades para el Trabajo y la Vida: los aportes de la familia, la escuela, el entorno y el mundo laboral*”. ISBN 980-6810-01-5, Banco de Desarrollo de América Latina, pgs. 91-156
- Bernal, R. and L. Flabbi (2015) Economic Achievement and Race: Is there evidence of discrimination in Colombia? In P. Urdinola, ed. *Aplicaciones en Demografía*. Editorial Universidad Nacional ISBN 978-958-775-641-8. Pg 145-174.
- Bernal, R. and A. Camacho (2014) Early Childhood Policy in the Context of Equity and Social Mobility in Colombia. In A. Montenegro and M. Meléndez, eds. *Equidad y Movilidad Social: Diagnósticos y Propuestas para la Transformación de la Sociedad Colombiana*. Editorial Uniandes (2014).
- Bernal, R. and M. Cárdenas (2003) Determinants of Labor Demand in Colombia, 1976-1996. In J. Heckman and Pagés, C., ed. *Law and Employment: Lessons from Latin America and the Caribbean*, NBER and Inter-American Development Bank, Washington.
- Bernal, R. and M. Cárdenas (2002). Wage Differentials in Colombia: The Role of Supply and Demand Factors. In M. Sebastián, ed. *Ensayos sobre Colombia y América Latina, Libro en memoria de Nicolás Botero [Essays about Colombia and Latin-America, book in memory of Nicolás Botero]*, Servicio de Estudios BBVA.

## OTHER PUBLICATIONS

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- Bernal, R. (2014) Diagnóstico y Recomendaciones para la atención de calidad a la primera infancia en Colombia [*Diagnostic and Recommendations of Early Childhood Services in Colombia*]. Cuadernos de Fedesarrollo No. 51.
- Bernal, R., C. Fernández, C.E. Flórez, A. Gaviria, P.R. Ocampo, B. Samper and F. Sánchez (2009) Evaluación de Impacto del Programa Hogares Comunitarios de Bienestar del ICBF [*Impact Evaluation of the Early Childhood Program Hogares Comunitarios in Colombia*]. Working Paper Centro de Estudios de Desarrollo Económico CEDE No. 16, July.
- Bernal, R., A. Camacho, C. E. Flórez, A. Gaviria, C. Jaramillo, O. Nupia, C. Rodríguez, F. Sánchez and M. Urrutia (2010). *Piensa Colombia: los aportes de la academia [Think Colombia: contributions from the academia]*, Documentos de Política Pública, Tomo 1, Vol. 2 Desarrollo Económico.
- Bernal, R. and M. Cárdenas. (2007) Race and Ethnic Inequality in Health and Health Care in Colombia. In: *Racial and Ethnic Disparities in Health in Latin America and the Caribbean*. Inter-American Development Bank, Country Department Andean Group, October.

## MANUSCRIPTS & UNDER REVIEW

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- Alison A., Atanasio, O., Bernal, R., Cardona, L., Krutikova, S. and Rubio-Codina, M. (2020) “Pre-school quality and child development”. NBER working paper No. 26191. Revise & resubmit.
- Attanasio, O., Bernal, R., Giannola, M. and Nores, M. (2020) “Child development in the early years: parental investments and the changing dynamics of different dimensions”. NBER Working Paper No. 27812. Under review.

## WORK IN PROGRESS

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- “Understanding the short and long-term impacts of early childhood interventions across the globe” (con M. Nores).

- “The effects of a project and play-based early education program on medium term developmental trajectories of young children in a low-income setting” (with M. Nores & M. Giannola).
- “The effects of teacher mental health and job burnout on child development” (with María Ferro).
- “Parents and childcare: choices, interactions and child development” (with Orazio Attanasio, Federico Gonzalez & Francis Vella)
- “The long-term effects of early education on young adults” (with Fabio Sánchez & Isabela Munevar).
- “A Structural Model of Child Care, Maternal Time and Child Cognitive Ability” (with Diego Amador and Michael P. Keane), Universidad de los Andes and Oxford University.

## GRANTS

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- 2020 Lego Foundation. “Paths to Play”, USD 200,000
- 2019 Lego Foundation. “Lessons from a project and play-based early education program in a low-income setting”, USD 50,043.
- 2018 British Academy Visiting Fellowship. “Understanding the Process of Early Human Capital Formation”, GBP 29,708.
- 2017 Instituto Colombiano de Bienestar Familiar, “Los impactos de la estrategia de atención integral para la primera infancia *‘De Cero a Siempre’*”, USD 178,000.
- 2014 Grand Challenges Canada, “An Integrated Intervention for Deprived Children in Rural Colombia”, PI, with IFS (London), Yale University, Bangor University CAD 2 million.
- 2013 UBS Optimum Foundation and National Institute for Early Education Research, “The Aeiotu Early Childhood Study”, Local PI, with M. Nores and S. Barnett, USD 280,000.
- 2013 Research Grant Fundación Éxito “Design of curricular improvements in *Hogares Comunitarios FAMI* and evaluation pilot”, PI, with O. Attanasio, C. Meghir, H. Henningham & M. Rubio, USD 80,000.
- 2013 Research Grant International Initiative for Impact Evaluation (3ie) “Impact Evaluation of Improvements in Childcare Centers (*Hogares Infantiles del Bienestar*)”, Co-PI, with O. Attanasio, M. Vera-Hernández, X. Peña and M. Rubio, USD 124,000.
- 2012 Inter-American Development Bank, “The Aeiotu Early Childhood Study”, PI, with M. Nores and S. Barnett, USD 89,000.
- 2011 Jacobs Foundation and National Institute for Early Education Research, “The Aeiotu Early Childhood Study”, Local PI, with M. Nores and S. Barnett, USD 532,000.
- 2010 UBS Optimum Foundation and National Institute for Early Education Research, “The Aeiotu Early Childhood Study”, Local PI, with M. Nores and S. Barnett, USD 360,000.
- 2010 Inter-American Development Bank, “The Aeiotu Early Childhood Study”, PI, with M. Nores and S. Barnett from NIEER, USD 100,000.
- 2010 Instituto Colombiano de Bienestar Familiar, “Estimating the Effects of the Early Childhood Program Jardines Sociales del Bienestar Familiar”, PI, with Ximena Peña, Orazio Attanasio and Marcos Vera-Hernández, USD 940,000.
- 2007 National Science Foundation Grant, “The Economics of Adoption”, Co-PI, with Luojia Hu, Eva Nagypal and Chiaki Moriguchi. Co-PI, USD 300,000
- 2007 Australian Research Council Discovery Grant, “Effects of Maternal Work, Daycare Use and Other Investments on Children Cognitive Outcomes”, Co-PI, with M. Keane, USD 300K
- 2006 Colombian National Planning Department and UNDP, “Evaluation of family-based nurseries *Hogares Comunitarios* in Colombia”, PI, with A. Gaviria, C.E. Flórez, C. Fernández, USD 500,000.
- 2006 Searle Fund Grant (Northwestern University), “Child Care, Maternal Time and Children’s Cognitive Outcomes”, PI, USD 60,000.

## TEACHING EXPERIENCE

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- Structural Econometrics, Labor Economics and Econometrics I, Northwestern University 2003-2006
- Econometrics I, Advanced Econometrics, Impact Evaluation, Graduate Labor

- Economics, Research Seminar & Intermediate Econometrics, Universidad de los Andes 2006-2018
- Short impact evaluation course at CINVE, Uruguay 2013
- Short impact evaluation course at Universidad del Pacífico, Lima 2013
- Short impact evaluation course at IADB in Costa Rica 2013
- Short impact evaluation course for Colciencias (Bogotá, Colombia) 2014
- Short impact evaluation course for Instituto Colombiano de Bienestar Familiar 2015

## CONSULTING EXPERIENCE

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### Inter-American Development Bank

- Determinants of Labor Demand in Colombia 2002-2003
- Race and Ethnic Inequality in Health and Health Care in Colombia 2007
- Evaluation Design for the Evaluation of *Jardines Sociales* in Colombia 2010
- Course on Impact Evaluation Techniques for Policy Makers in Costa Rica 2012
- The Cost of a Comprehensive Early Childhood Strategy in Colombia 2013
- Organizer workshop on Impact Evaluation in Practice CEIP 2015 2015

### World Bank

- The Informal Labor Market in Colombia 2007

### USAID

- Child Labor in Colombia 2006

### National Planning Department, Colombia

- Mission on Equity and Social Mobility in Colombia 2011

### CAF Banco de Desarrollo en América Latina

- Impact Evaluation Adviser for projects in the region 2013-2014

### COLCIENCIAS Colombia

- Impact Evaluation Adviser for projects in the country 2013-2014

## SERVICE

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### Peer Reviewer

Social Sciences & Medicine, Journal of Urban Economics, Journal of the European Economic Association, Review of Economic Studies, Economics of Education Review, Journal of Pediatrics, Journal of Childcare and Education Policy, American Economic Journal-Macro, Review of Economics of the Household, Southern Economic Journal, Economic Inquiry, Economic Theory, Journal of Applied Econometrics, Journal of Political Economy, Journal of Human Resources, Journal of the Royal Statistical Society, Economic Journal, Trimestre Económico, Labour Economics, Quantitative Economics, Journal of Economic Theory, 3ie, Journal of Family Issues, Economica, Review of Economics and Statistics, Journal of Econometrics, International Economic Review, Review of Labour Economics and Industrial Relations, Journal of Labor Economics, European Economic Review, Econometrics Journal, Journal of Public Economics, B.E. Journal of Economic Analysis & Policy, Journal of Economic Dynamics and Control, World Development, National Science Foundation, Economía-LACEA, Desarrollo y Sociedad, Ensayos sobre Política Económica.

### Professional Society Memberships

Member: Latin American and Caribbean Economic Association.  
 Executive Committee member of the Latin American and Caribbean Economic Association (2014-2016).  
 Standing Member of the Latin American Chapter of the Econometric Society (2014-2016).

### Other professional activities

Board Member Saldarriaga Concha Foundation 2015-present) <http://www.saldarriagaconcha.org/es/>

Board Member Alpina Foundation (2016-2020) <http://fundacionalpina.org/>

Scientific Advisory Board Grand Challenges Canada (2018-2020) <http://www.grandchallenges.ca/>

Board Member Universidad de los Andes (2016-2018)

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