CURRÍCULUM VITAE

DATOS PERSONALES:

APELLIDOS: Arango NOMBRE: Carlos A.

FORMACIÓN ACADÉMICA:

TITULO OBTENIDO INSTITUCIÓN **FECHA** B.A. Economics. Pontificia Universidad Javeriana. Colombia 1982-1986 Universidad de los Andes (part time), Colombia Master in Economics 1987-1993 M. S. Economics University of Illinois at Urbana-Champaign, USA 1994-1996 DOCTORADO Ph.D. Economics University of Illinois at Urbana-Champaign, USA 1997-2000 Northwestern University, USA Advanced Workshop for 2008 (Sep) Central Bankers

SITUACIÓN PROFESIONAL ACTUAL:

CARGO: INVESTIGADOR PRINCIPAL

FECHA DE INICIO:

ORGANISMO: SUBGERENCIA DE SISTEMAS DE PAGO Y OPERACIÓN BANCARIA

CENTRO: BANCO DE LA REPÚBLICA COLOMBIA

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ACTIVIDADES ANTERIORES DE CARÁCTER CIENTÍFICO O PROFESIONAL:				
FECHAS	CARGO	INSTITUCIÓN		
20012-YTD	Principal Researcher	CENTRAL BANK OF COLOMBIA		
2007-2012	Principal Researcher	BANK OF CANADA		
2005-2007	Senior Analyst	BANK OF CANADA		
2004-2005	Principal Researcher	CENTRAL BANK OF COLOMBIA		
2000-2003	Adviser and Researcher	CENTRAL BANK OF COLOMBIA		
1999	Consultant	THE WORLD BANK		
1996-1998	Research Assistant	UNIVERSITY OF ILLINOIS		
1992-1994	Economist	BANCOLDEX		
1990-1992	Researcher	COLOMBIAN BANKING ASSOCIATION		
1989-1990	Chief	IMPORTS SECTION-COLOMBIAN MINISTRY OF		
		FOREIGN AFFAIRS		

IDIOMAS: (R= regular, B= bien, C= correctamente).					
	HABLA	LEE	ESCRIBE		
FRANCÉS	В	В	В		
INGLES	С	С	С		

PUBLICACIONES, en orden cronológico. Añadir tantas hojas como sea necesario.

- 1. "Cash Management and Payment Choices: A Simulation Model with International Comparisons" (with Yassine Bauhdaoui, David Bounie, Martina Eschelbach and Lola Hernández). Forthcoming Bank of Canada working paper series.
- 2. "The Changing Landscape for Retail Payments in Canada and the Implications for the Demand for Cash" (with Kim P. Huynh, Ben Fung and Gerald Stuber). *Bank of Canada Review*, Autumn 2012.
- 3. "Why Is Cash (Still) So Entrenched? Insights from the Bank of Canada's 2009 Methods-of-

Payment Survey" (with Dylan Hogg and Alyssa Lee). Bank of Canada Discussion Paper 2012-2.1 http://ideas.repec.org/p/bca/bocadp/12-2.html

- 4. "The Role of Convenience and Risk in Consumers' Means of Payment" (with Varya Taylor). Bank of Canada Discussion Paper 09-8, 2009. http://ideas.repec.org/p/bca/bocadp/09-8.html
- 5. "Merchants' Costs of Accepting Means of Payment: Is Cash the Least Costly?" (with Varya Taylor). Bank of Canada Review, Winter 2008-2009. http://ideas.repec.org/a/bca/bcarev/v2009v2009iwinter08-09p17-25.html
- 6. "Merchant Acceptance, Costs, and Perceptions of Retail Payments: A Canadian Survey" (with Varya Taylor). In "Evolving Payment Habits Proceedings of the Bank of Finland Payment Habits Seminar 2008." Ed. Harry Leinonen. Finland.
- "Minimum Wages in Colombia: Holding the Middle with a Bite on the Poor" (with Angelica Pachón). Banco de la República, *Ensayos sobre Politica Economica*, (55), February, 2007. http://ideas.repec.org/p/col/000094/003224.html
- 8. "The Underground Economy in Colombia and the Demand for Money" (with Martha Misas and Enrique López). Ensayos Sobre Política Económica, 50, June, 2006.2 http://ideas.repec.org/a/col/000107/002397.html
- 9. "Trade Reform and Labour Dynamics in the Colombian Manufacturing Sector 1977-1999," with Angela M. Rojas, *Ensayos Sobre Política Económica*, (44), December, 2003,. http://ideas.repec.org/a/col/000107/002271.html
- 10. "Systemically Important Payment Systems in Latin America and the Caribbean: Results of the Self-assessment Exercises" (with Joaquin Bernal R.). Western Hemisphere Payment & Securities Settlement Forum, CEMLA and World Bank, Research Series Paper No. 2, June 2003. http://www.forodepagos.org/pdf/Self-Assessment-ingles.PDF
- 11. "Non-linearities in the Demand for Money in Colombia: Artificial Neural Networks as a Forecasting Tool" (with Martha Misas, Enrique López and Nicolás Hernández). *Ensayos Sobre Política Económica*, Jun. 2004, 45. http://ideas.repec.org/a/col/000107/003277.html
- 12. "Short Run Adjustment of Interest Rates in Colombia," *Revista Banca y Finanzas*, Colombian Banking Association, 24, Apr-Jun 1992.
- 13. "Economies of Scale in the Colombian Financial Sector," *Revista Banca y Finanzas*, Colombian Banking Association, 22, Oct-Dec 1991.

Working Papers

- 14. "Multiple Means of Payment and the Transactions Demand for Cash," mimeo, Bank of Canada
- 15. "How Do You Pay? The Role of Incentives at the Point-of-sale," (with Kim Huynh and Leonard Sabetti). Bank of Canada working paper 2011-23, 2011. http://ideas.repec.org/p/bca/bocawp/11-23.html
- 16. "The Demand for Bank Notes and Coins: a Non-Linear Artificial Neural Network SUR," with Martha Misas and Nicolás Hernández, Colombian Central Bank working paper 309, July, 2004. http://ideas.repec.org/p/col/000094/002964.html
- 17. "Discrete Choice Under Costly Search: A Search-Constrained Model of Long Distance Carrier Choice," University of Illinois at Urbana-Champaign, mimeo, 1999.
- 18. "Quantity-based Price Discrimination in Free Entry Markets with Costly Search," University of Illinois at Urbana-Champaign, mimeo, 1998.
- 19. "Estimation of Poisson Models under the Presence of Sample Selection," University of Illinois, mimeo, 1995.

Other documents:

World Bank background documents on labour market dynamics in Latin America.

- 20. "Unemployment Dynamics in Latin America: Estimates of Continuous Time Markov Models for Mexico and Argentina," with William Maloney, mimeo, World Bank, 2000.
- 21. "Employment, Informality and Poverty in the Argentine Labour Market," with William Maloney, mimeo, World Bank, 1999.
- 22. "The Wind Chill Factor: Unemployment and Income Risk across Liberalization and Crisis," with William Maloney, mimeo, World Bank, 1999.

PARTICIPACIÓN EN CONGRESOS: Añadir tantas hojas como sea necesario.

Consumer Finances and Payment Diaries, Bank of Canada, Oct 2012. "Multiple Means of Payment and the Transactions Demand for Cash."

Access to Financial Services and Payment Instruments, Colombian Banking Association, Cartagena, May 2012. "Access to Retail Payment Instruments: Benefits and Costs to End Users."

Economics of Payments V, Federal Reserve Board, Washington, June 2011. "How Do You Pay? The Role of Incentives at the Point of Sale."

International Industrial Organization Conference, Boston, April 2011. "Will it be cash, debit or credit cards? How Canadians pay."

Testimony to the Canadian Senate Committee on Banking, Trade, and Commerce, March 3, 2011. "Merchant Acceptance, Perceptions and Costs of Alternative Payment Instruments."

Austrian National Bank, Research Workshop, Vienna, July 2010. "Cash, Debit or Credit: Why, Where and When?"

Canadian Payments Association Annual Conference, Vancouver, April 2010. "Canadian Method of Payment Study."

Bank of Finland Payment Habits Seminar, Helsinki, 2008. "Merchant Acceptance, Costs, and Perceptions of Retail Payments: A Canadian Survey."

Canadian Economic Association Meetings, Halifax, 2007. "Merchant Acceptance, Costs and Perceptions of Retail Payments: A Canadian Survey."

Latin American and Caribbean Economics Association (LACEA) Meetings, San José, Costa Rica, November 2004. "Minimum Wages in Colombia: Holding the Middle with a Bite on the Poor."

Latin American and Caribbean Economics Association (LACEA) Meetings, Puebla, Mexico, October 2003. "Labour Demand Dynamics and Trade Reform: The Colombian Case During de 90s"

Consortium for Research on Telecommunications Policy and Strategy, Fourth Annual Conference, University of Michigan Business School, Ann Arbor, June, 1998. "Consumer Search and Price Discrimination."

TESIS DOCTORALES DIRIGIDAS: Título, doctorando, Universidad, Facultad/Escuela, año, calificación.

Efectos en Bienestar del Salario Mínimo en Colombia (1997-2002), Master in Economics, Universidad de los Andes, Facultad de Economía, 2004.

OTRAS ACTIVIDADES RELEVANTES DESDE EL PUNTO DE VISTA CIENTÍFICO, TÉCNICO O ACADÉMICO. Añadir tantas hojas como sea necesario.

Teaching

2003-2004 Universidad del Rosario, Financial Microeconomics, Colombia

2002 Universidad de los Andes, Quantile Regression Analysis, Colombia

1992 Universidad de los Andes, National Accounts, Colombia

1991 Universidad de los Andes, Macroeconomía, Colombia

1987 Pontificia Universidad Javeriana, Labour Economics Seminar, Colombia