FRANCISCO CEBALLOS

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Education

PhD in Agricultural Economics – *Georg-August-Universität Göttingen*   2014-2017
     Göttingen, Germany. *Magna cum laude*
     Advisors: *Matin Qaim, Máximo Torero, Oliver Musshoff*
     Dissertation: *Demand and Design Considerations for Smallholder Farmers' Weather Index Insurance Products*

     2017 Ernst Meyer Prize of The Geneva Association for best doctoral thesis in risk and insurance economics

Project Management for Community Development – *University of the Witwatersrand*   2009
     Johannesburg, South Africa

M.S. in Finance – *Torcuato Di Tella University*   2004-2005
     Buenos Aires, Argentina. GPA: 9.32/10 *(Full Scholarship)*

B.S. in Economics – *Torcuato Di Tella University*   2000-2003
     Buenos Aires, Argentina. Minor in Business Economics. GPA: 8.73/10 *(Full Scholarship)*

Fields of Interest

Development economics. Agricultural risk-mitigation: Microinsurance, Index Insurance, Informal risk sharing. Sustainable Nutrition. Digital tools for agriculture and development.

Professional Experience

International Food Policy Research Institute (IFPRI)
     Research Fellow   2020-Present
     Associate Research Fellow. Markets, Trade, and Institutions Division   2018-2020
     Senior Research Analyst. Markets, Trade, and Institutions Division   2015-2018
     Research Analyst. Markets, Trade, and Institutions Division   2012-2015

The World Bank   2010-2012
     Consultant. Office of the Chief Economist for Latin America

Small Enterprise Foundation (SEF)   2010-2011
     Consultant. Research and Development Department

The World Bank   2006-2012
     Research Assistant. Development Economics Unit

Criteria Investors   2005-2006
     Fixed Income Analyst

Torcuato Di Tella University   2004-2005
     Research Assistant. CEI

Journal Articles

"Is agricultural insurance fulfilling its promise for the developing world?" with B. Kramer, P. Hazell, H. Alderman, N. Kumar, and A. Timu, 2022. *Annual Review of Resource Economics*, forthcoming. IFPRI Discussion Paper 2057.

"Short-term impacts of COVID-19 on food security and nutrition in rural Guatemala: Phone-based farm household survey evidence," with M.A. Hernandez and C. Paz, 2021. *Agricultural Economics* 52(3): 477-494.

"Crop prices, farm incomes and food security during the COVID-19 pandemic in India: Phone-based producer survey evidence from Haryana State," with B. Kramer and S. Kannan, 2021. *Agricultural Economics* 52(3): 525-542.

"Improving the performance of index insurance using crop models and phenological monitoring," with M. Afshar, T. Foster, T.P. Higginbottom, B. Parkes, K. Hufkens, S. Mansabdar, and B. Kramer, 2021. *Remote Sensing* 13(5): 924.

"Assessing the use of cell phones to monitor health and nutrition interventions: Evidence from rural Guatemala," with M.A. Hernandez, F. Olivet, and C. Paz, 2020. *PLoS ONE* 15(11): e0240526.

"Impacts of a national lockdown on smallholder farmers' income and food security: Empirical evidence from two states in India," with B. Kramer and S. Kannan, 2020. *World Development* 136: 105069.

"Demand heterogeneity for index-based insurance: The case for flexible products," with M. Robles, 2020. *Journal of Development Economics* 146: 102515.

"Weather dataset choice introduces uncertainty to estimates of crop yield responses to climate variability and change," with B. Parkes, T. Higginbottom, K. Hufkens, B. Kramer, and T. Foster, 2019. *Environmental Research Letters* 14(12), 124089.

"The feasibility of picture-based insurance (PBI): Smartphone pictures for affordable crop insurance," with B. Kramer and M. Robles, 2019. *Development Engineering* 4, 100042.

"Monitoring crop phenology using a smartphone based near-surface remote sensing approach," with K. Hufkens, E. Melaas, M. Mann, T. Foster, M. Robles, and B. Kramer, 2018. *Agricultural and Forest Meteorology* 265: 327-337.

"Grain price and volatility transmission from international to domestic markets in developing countries," with Manuel Hernandez, Nicholas Minot, and Miguel Robles, 2017. *World Development* 94: 305-320.

"Demand for a simple weather insurance product in India: Theory and evidence," with Miguel Robles and Ruth Vargas Hill, 2016. *American Journal of Agricultural Economics* 98(4): 1250-1270.

Book Chapters

"Short-term impacts of COVID-19 in rural Guatemala: Call for a closer, continuous look at the food security and nutritional patterns of vulnerable families," with M.A. Hernandez and C. Paz, 2022. In <u>COVID-19 and global food security: Two years later</u>, J. McDermott and J. Swinnen, eds., 2022.

"Insurance opportunities against weather risks for smallholder farmers in Africa," with J. Ulimwengu, T. Makombe, and M. Robles, 2017. In <u>ReSAKSS 2016 Annual Trends and Outlook Report</u>.

"Transmission of food price volatility from international to domestic markets: Evidence from Africa, Latin America, and South Asia," with M. Hernandez, N. Minot, and M. Robles. In <u>Food Price Volatility and Its Implications for Food Security and Policy</u>, M. Kalkuhl, J. von Braun, and M. Torero, eds., Springer, 2016.

"Emerging issues in financial development: Lessons from Latin America – Overview," with T. Didier and S.L. Schmukler, 2013. In <u>Emerging Issues in Financial Development: Lessons from Latin America,</u> T. Didier and S.L. Schmukler, eds. Inter-American Development Bank, UN-Economic Commission for Latin America and the Caribbean, and the World Bank.

"Financial globalization in emerging countries: Diversification vs. offshoring," with T. Didier and S.L. Schmukler, 2013. In <u>New Paradigms for Financial Regulation: Emerging Market Perspectives</u>, M.B. Lamberte and E. Prasad, eds., ADBI and Brookings Institution.

Working Papers

"The role of asymmetric information in multi-peril picture-based crop insurance: Field experiment in India," with B. Kramer. IFPRI Discussion Paper 2088.

"Assessing feasibility and effects of personalized remote advisories based on smartphone pictures: A formative evaluation in India," with S. Kannan and B. Kramer, 2021. CCAFS Working Paper 406.

"Assessing the impacts of COVID-19 on the coffee value chain in Guatemala: Evidence from coffee growers in the Midwest and East," with M. Hernandez, C. Paz, and M.L. Berrospi, 2021. IFPRI Project Note, December 2021.

"Show me what you eat: Assessing diets remotely through pictures," with M. Hernandez, 2021. IFPRI Project Note.

"The Migration Propensity Index (MPI): An application to Guatemala," with M. Hernandez, 2020. IFPRI Discussion Paper 1953.

"Enhancing adaptive capacity through climate-smart insurance: Theory and evidence from India," with B. Kramer, 2018.

"Estimating spatial basis risk in rainfall index insurance: Methodology and application to excess rainfall insurance in Uruguay," 2016. IFPRI Discussion Paper 1595.

Other Selected Publications

"Digital technologies for financial inclusion of smallholder farmers: Needs assessment in three states of India," with S. Kannan, V. Singh, and B. Kramer, 2019. IFPRI Project Note.

"Picture-Based Insurance: Is It sustainable? Effects on willingness to pay, adverse selection, and moral hazard," with B. Kramer, M. Krupoff, M.S. Toor, A. Mishra, S. Karekar, and M. Robles. IFPRI Project Note, 2017.

"Picture-Based Crop Insurance: Is It feasible? Using farmers' smartphone pictures to minimize the costs of loss verification," with B. Kramer, K. Hufkens, E. Melaas, A. Mishra, M. Mann, M.S. Toor, and M. Robles. IFPRI Project Note, 2017.

Professional Service

Reviewer for: Agricultural Economics, Agricultural Systems, American Journal of Agricultural Economics, Food Policy, Journal of Development Economics, QOpen, Remote Sensing, World Development

Languages

Spanish	Native
English	Oral and written proficiency
French	Basic communication skills. 1st year Alliance Française Buenos Aires, 2000
Russian	Basic communication skills

Computer Skills

Extensive experience in **Stata**. Experience in CAPI survey design with **SurveyToGo**, **SurveyCTO,** and **CSPro**. Proficiency in **Excel** and **Visual Basic** programming. Mathematical programming in **Matlab, R, and Gauss**. Geographic data management and analysis with **ArcGIS**. Experience overseeing **app** and **web** development.