

Carlos Calvo-Hernandez
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EDUCATION

PhD, Policy Analysis **Expected Jun 2024**
Pardee RAND Graduate School **Santa Monica, CA**

MPA, International Policy and Management **May 2017**
New York University **New York, NY**

BS, Mathematics **Jun 2012**
Universidad Nacional Autónoma de México (UNAM) **Mexico City, Mexico**

WORK EXPERIENCE

Institute for Policy Integrity at NYU School of Law **Feb 2018-Present**
Junior Research Scholar **New York, NY**

- Assist in the development of a Computational General Equilibrium model of unemployment and energy markets in the U.S in General Algebraic Modeling System.
- Contribute to the creation of an energy model that incorporates environmental externalities to capacity markets in R.
- Gather, manage, and analyze existing, and new data sets for the day-to-day activities.
- Conduct statistical analyses and relevant visualizations for the academic activities of the Institute.
- Prepare and transcribe mathematical structure to code in GAMS, R, and Python.
- Develop teaching resources and a workshop for data science in R and Python.

New York University **Jan 2018-Apr 2019**
Research Assistant, Department of Environmental Studies **New York, NY**

- Assist in the Smart Subsidies for Catchment Conservation in Malawi project under Prof. Andrew R. Bell.
- Prepare, create, and manage geospatial data and analysis of household plot-point datasets in QGIS and R.
- Conduct spatial and statistical analyses about the spatial references.
- Provide guidance to undergraduate research assistants in the development of deliverables for this project.

CUNY Urban Food Policy Institute **Oct 2017-Feb 2018**
Research Assistant **New York, NY**

- Assist in data collection, data entry, and data analysis for the evaluation of the Community for Healthy Foods Project with the Local Initiatives Support Corporation.
- Prepare and analyze statistical tables for presentation and deliverables.
- Gather and manage second-hand data and references for descriptive population and outcomes tables for final report.

International Food Policy Research Institute **May 2017 – January 2018**
Consultant, Environment and Production Technology Division **Washington, D.C**

- Undertake a literature review of the linkages between soil health, land management practices and gender focusing on developing countries

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- Craft a synthesis report of the aforementioned linkages for the project “Ex-ante study on social and economic barriers and drivers of adoption of soil C-conserving management practices with special emphasis on potentially emerging burdens on women carried out in two countries.”
- Published the IFPRI Discussion Paper “Gendered opportunities for improving soil health: A conceptual framework to help set the research agenda” about the report.

New York University

Jan 2017-Dec 2017

Graduate Research Assistant, Department of Environmental Studies

New York, NY

- Gathered, managed, aggregated, and analyzed data, testing methods, and proof of concept testing in the “Migration, Intensification, and Diversification as Adaptive Strategies (MIDAS)” Matlab model under Prof. Andrew R. Bell.
- Prepared R and Matlab tables and graph output from model simulations.
- Updated and checked existing data banks; assembled, consolidated, and surveyed new sources of data.
- Collaborated, created, and produced the video and presentation titled "Migration as an adaptive strategy; application to the U.S. - Mexico corridor" for CoMSES 2017 conference.

Inter-American Development Bank

Aug 2016 – May 2017

Project Associate, NYU Advanced Projects in International Development

New York, NY

- Served in a 3-person consisting of NYU Wagner graduate candidates to design and implement an instrument to evaluate metropolitan governance for the Guadalajara Metropolitan Area, Mexico.
- Analyzed qualitative metropolitan indicators about institutional capacity in public safety, and public trust.
- Proposed and designed an instrument to evaluate metropolitan governance in Latin America.

RESEARCH PAPERS

- Zhang, Wei and Walker, Dominic and **Calvo Hernandez, Carlos** and Elias, Marlène and Meinzen-Dick, Ruth S. and Nkonya, Ephraim, Gendered Opportunities for Improving Soil Health: A Conceptual Framework to Help Set the Research Agenda (April 11, 2019). IFPRI Discussion Paper 1822. Available at SSRN: <https://ssrn.com/abstract=3371230>
- Bell, A., **Calvo-Hernandez, C.**, Oppenheimer, M. (2019). Migration, Intensification, and Diversification as Adaptive Strategies (MIDAS). *Socio-Environmental Systems Modeling. Vol. 1*, 2019. <https://doi.org/10.18174/sesmo.2019a16102>.
- Zhang, W., Gowdy, J., Bassi, A.M., Santamaria, M., DeClerck, F., Adegboyega, A., Andersson, G.K.S., Augustyn, A.M., Bawden, R., Bell, A., Darknhofer, I., Dearing, J., Dyke, J., Failler, P., Galetto, L., **Hernández, C.C.**, Johnson, P., Jones, S.K., Kleppel, G., Komarek, A.M., Latawiec, A., Mateus, R., McVittie, A., Ortega, E., Phelps, D., Ringler, C., Sangha, K.K., Schaafsma, M., Scherr, S., Hossain, M.S., Thorn, J.P.R., Tyack, N., Vaessen, T., Viglizzo, E., Walker, D., Willemsen, L. and Wood, S.L.R. (2018). Systems thinking: an approach for understanding ‘eco-agri-food systems’. In *TEEB for Agriculture & Food: Scientific and Economic Foundations*. Geneva: UN Environment. Chapter 2, 17-55.

TECHNICAL SKILLS

- Experience in quantitative and qualitative research methods; experience in geo-spatial analysis; strong analytical skills.
- Software: R; Python; STATA; Matlab; Tableau; LaTeX; EndNote; QGIS; SPSS; Mathematica; GAMS; SQL; Mendeley.
- Languages: Spanish (native); English (bilingual); French (intermediate)