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EDUCATION

2016-Present **Cornell University**, Ithaca, NY.
Ph.D. Candidate, Regional Science

Research interests: Labor Economics, Economics of Education, Applied Econometrics, Migrant and refugee integration in Latin America, Regional and Urban Economics, Input-output modeling and applications

Ph.D. committee: [Lawrence Kahn \(Economics\)](#), [Miguel Gomez \(Applied Economics and Management\)](#), and [Kieran Donaghy \(City and Regional Planning\)](#)

Job Market Paper: **"The Fiscal Impact of Immigration: Labor Displacement, Wages, and the Allocation of Public Spending"**, with Carlos Mesa. Latest version [available here](#)

2012-2013 **Universidad Católica del Norte**, Antofagasta, Chile.

M.Sc., Regional Science

Dissertation: [The effect of spatial density of firms on the gender wage gap](#)

Advisor: Dusan Paredes

2007-2011 **Universidad de Cartagena**, Cartagena, Colombia.

B.A., Economics

Dissertation: [Economic valuation of mortality in the Caribbean Region of Colombia, 2004-2008](#)

RESEARCH EXPERIENCE

May 2018 - **Consultant, International Finance Corporation**, Bogotá, Colombia.

July 2018 Market Opportunities Group

- o Prepared 50-page internal report about progress and challenges of Colombia's meat cold chain management for a \$7M project to support cattle farms in 2 regions of Colombia. Conducted 10+ interviews with C-suite and industry SMEs in meat value chain and analyzed trends in production, export, and cost data in Excel; presented to leadership team of IFC Market Opportunities Group
- o Utilized Excel, MATLAB, and Stata to estimate ex-ante impact of \$7M investment on cattle ranching and beef sectors using national/regional input-output and Computable General Equilibrium Models; model discussed with Commerce Minister

Jan 2014- **Education Consultant, Office of Vice Provost for Academic Affairs, Universi-**

July 2016 **dad Católica del Norte**, Antofagasta, Chile.

Institute of Applied Regional Economics (IDEAR)

- o Advised VP for Academic Affairs on the design, implementation, and evaluation of tutoring and mentoring programs to deal with early dropout (450 students out of 2K per cohort) and to improve quality of teaching (900 professors)
- o Built predictive model in Stata to detect signs of early dropout using machine learning on dataset of 10M+ observations; model used to enroll 100 at-risk students in academic tutoring per semester, leading to 10% reduction in dropout rates

Jan 2016- **Researcher, Universidad, Católica del Norte**, Antofagasta, Chile.

July 2016 Department of Economics

- o Prepared a chapter for the book "Sistemas, Coaliciones, Actores y Desarrollo Económico Territorial en Regiones Mineras" sponsored by the Regional Government of Antofagasta and the Inter-American Development Bank (IADB)

Jan 2011- **Research Assistant, Central Bank of Colombia**, Cartagena, Colombia.

Dec 2011 Centro de Estudios Económicos Regionales (CEER)

- o Supported senior researchers in the different stages of their research process by processing databases, elaborating literature reviews, and performing econometric estimations related to topics of interregional migration, the quality of teachers in secondary education, and the spatial distribution of avocado production in Colombia. Some of the documents I was involved with:
 - "The Sensitivity of the supply of internal migrants to labor market conditions in the major cities of Colombia" [Available here](#)
 - "The quality of teachers in Colombia: Performance in the ICFES state exam and the probability to graduate in the field of education" [Available here](#)
 - "Ethnicity and academic performance in Colombia" [Available here](#)

PUBLICATIONS

JOURNAL ARTICLES

- 2019 **"A structural path analysis of Chilean mining linkages between 1995 and 2011. What are the channels through which extractive activity affects the economy?"**, Resources Policy, 60, 106-117. [Available here](#)
- 2015 **"Effect of rota-virus vaccine on childhood diarrhea mortality in five Latin American countries"**, Vaccine, 33(32), 3923-3928. [Available here](#)
- 2013 **"Economic valuation of mortality in the Caribbean Region of Colombia, 2004-2008"**, Semestre Económico, 16(33), 155-179. [Available here](#)

BOOK CHAPTERS

- 2015 **"Antofagasta and the Chilean regions"**, with Marcelo Lufin, Chapter 6, pp. 118-140, in Sistemas, coaliciones, actores y desarrollo económico territorial en regiones mineras, Instituto de Políticas Públicas, Universidad Católica del Norte, Antofagasta, Chile. [Available here](#)

WORKING PAPERS

- **"The Fiscal Impact of Immigration: Labor Displacement, Wages, and the Allocation of Public Spending"**, with Carlos Mesa, Job Market Paper. Latest version [available here](#)
- **"Is the CCN-51 cacao hybrid the solution for the potential shortage of chocolate? A hedonic and willingness to pay study for different varieties of Ecuadorian chocolate"**, with Miguel Gomez. Latest version [available here](#)
- **"The Effect of the ICT in the entrepreneurial activity: A dynamic panel data approach for Chile, 2005-2012."**, with Feliz Modrego and Gianni Romaní (Economics Department, Universidad Católica del Norte). Latest version [available here](#)
- **"The effect of spatial density of firms on gender wage gap"**, with Dusan Paredes (Economics Department, Universidad Católica del Norte). Latest version [available here](#)

WORK IN PROGRESS

- **"The effect of immigration on wages and employment, and its adjustment process: Evidence from the Venezuelan immigration to Colombia between 2014-2018"**

TEACHING EXPERIENCE

- Fall 2020 - present **Graduate Resident Tutor, Cornell in Washington Program (CIW), DC.**
- o Tutored and mentored 30 undergraduate students in writing major policy papers over the span of two and a half academic years; helped define research questions, discuss causes and consequences, and perform quantitative evaluation of effectiveness of policy solutions. A list of the topics I helped the students with can be found [here](#)
- Mar 2013 - July 2016 **Lecturer, Department of Economics, Universidad Católica del Norte, Antofagasta, Chile.**
- o Taught Econometrics, Macroeconomics, and Microeconomics courses at the undergraduate level. Received 4.5/5 average overall score in student evaluations across seven courses
- 2013 **Lecturer, Universidad de Cartagena, Quantitative Methods, January 2013-March 2013.**
- o Taught a one-week workshop on Panel Data Models, applications, and implementation in Stata
- 2012 **Teaching Assistant, Universidad Católica del Norte, Optimization I, 2012-II.**
- o Taught a two-week workshop on Optimization Methods and its application in Economics
- 2009-2011 **Teaching Assistant, Universidad de Cartagena, Macroeconomics I.**

PARTICIPATION IN CONFERENCES

- 2022 APPAM. "The effect of immigration on wages and employment, and its adjustment process: Evidence from the Venezuelan immigration to Colombia between 2014-2018"
- 2021 APPAM. "The Fiscal Impact of Immigration: Labor Displacement, Wages, and the Allocation of Public Spending"
- 2020 Population Association of America (PAA). "The impact of Venezuelan immigration on Colombian's local labor markets" [canceled due to COVID].
- 2020 2020 Cornell Research Symposium on Latin America. "The impact of Venezuelan immigration on Colombian's local labor markets".
- 2015 XXIV PRSCO & VII Chilean Society of Regional Studies Meeting. "The Effect of ICTs in the Entrepreneurial Activity: A Dynamic Panel Data Approach for Chile between 2005-2012".
- 2014 VI Chilean Society of Regional Studies Meeting. "The effect of spatial density of firms on gender wage gap".
- 2013 III RSAmericas and V Chilean Society of Regional Studies Meeting. "Áreas urbanas y brecha salarial de género en Colombia". (Link: <http://www.rsamericas.com/web/>)
- 2012 IV Encuentro de la Sociedad Chilena de Estudios Económicos Regionales. "Economic valuation of mortality in the caribbean region of Colombia, 2004-2008". (Link: <https://docs.google.com/file/d/0B9Uv1arUM0UWNXdfa3U1MmU2R1U/edit?pli=1>)

MENTORING AND VOLUNTEERING EXPERIENCE

- Fall 2018 - **Mentor and tutor for undergraduate students at the Department of City and Regional Planning**, Ithaca, NY.
- o Met weekly with students to talk about academic progress and provided career and professional advice. Taught class material related to subjects such as Regional Economic Impact Analysis and Transportation Policy
- May - **Volunteer for Accion Emprendedora**, Antofagasta, Chile.
- October 2015 o Taught Elements of Business Development course to 20 migrants. Helped immigrants to develop a business plan from scratch
- Summer 2017 **Vice-president of the Colombian Student Association at Cornell (CUCSA)**, Ithaca, NY.
- Fall 2020
- o Managed \$5K annual budget for social and academic events. Led team of 4 to coordinate 20 events over 3 years for 90 members

SERVICE

Referee: *Resources Policy, Journal of Economic Policy Reform*

HONORS AND AWARDS

- 2019 Cornell LASP Summer Research Grant
- 2019 Einaudi Center International Research Grant
- 2016 Scholarship for Ph.D studies, National Commission for Scientific and Technological Research (CONICYT), Chile
- 2015 The Pacific Regional Science Conference Organization (PRSCO) Prize for Best Paper by a Young Regional Scientist, Viña del Mar, Chile
- 2015 Graduated with highest honors, Master in Regional Science, Antofagasta, Chile
- 2015 Winner of Graduate Thesis Award of Interest for Regional Development, Antofagasta, Chile
- 2012 Scholarship for graduate studies, Department of Economics, Universidad Católica del Norte, Antofagasta, Chile
- 2012 Fellowship as young researcher in the Training Program for Young Scientists and Innovators "Virginia Gutiérrez de Pineda" (Colciencias), Colombia
- 2011 Best university score in the national Quality Examination for Higher Education in Economics, University de Cartagena, Cartagena, Colombia
- 2011 Undergraduate Dissertation Award, Universidad de Cartagena, Cartagena, Colombia

PROFESSIONAL ASSOCIATIONS

- i. Population Association of America (PAA)
- ii. Association for Public Policy Analysis and Management (APPAM)
- iii. Cornell Population Center

iv. Regional Science International Association (RSAI)

v. Chilean Society of Regional Studies (SOCHER)

SOFTWARE

Advanced STATA, Microsoft Excel

Intermediate R, ARCGIS, GEODA, \LaTeX , Eviews, Jabref, Mendeley

Basic SQL, MATLAB, Mathematica, Python

LANGUAGES

Spanish **Native**

English **Fluent**

REFERENCES

i. **Miguel Gomez, PhD**

Associate Professor, Charles H. Dyson School of Applied Economics and Management
Cornell University, Ithaca, NY
Phone: (1)(607) 255 8159
Email: mig7@cornell.edu

ii. **Lawrence Kahn, PhD**

Braunstein Family Professor and Professor of Economics
Cornell University, Ithaca, NY
Phone:(1)(607) 255 0510
Email: lmk12@cornell.edu

iii. **Kieran Donaghy, PhD**

Professor, Department of City and Regional Planning
Cornell University, Ithaca, NY
Phone:(1)(607) 254 4865
Email: kpd23@cornell.edu

iv. **Ana Maria Torres**

Senior Operations Officer - Country Economics and Engagement Department
International Finance Corporation (IFC), Bogotá, Colombia
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v. **David Silbey**

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Cornell University in Washington, DC
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