

Felipe Alonso Males Lema  
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Felipe is the first indigenous Ecuadorian to study at one of the best universities in the world-Nanyang Technological University in Singapore. He is an economist and data scientist. His studies focus on how nations develop, the development of public policies through data, the economic and social implications of the Fourth Industrial Revolution and the Belt and Road Initiative in indigenous communities in Ecuador. He is the founder of the largest network of indigenous professionals in Ecuador, the Kichwa Institute of Science Technology and Humanities-KISTH (<https://kisth.org/>). Felipe was awarded the National Youth Award 2018, Academic Merit and the MIT Global Ideas Challenge 2017.

### **Personal Information**

Web Page: <https://fmales.com/>  
Citizenship: Native (Indigenous) Ecuadorian  
Gender: Male  
Birthday: 11 Dec 1991

### **Education**

MSc. Applied Economics  
Nanyang Technological University-Singapore  
2020

Micro Master in Data, Economics and Development Policy  
Massachusetts Institute of Technology (MIT)-Online  
Present

B.Sc. *Cum laude* in Economics and Finance  
National Polytechnic School-Ecuador  
2017

**Languages** Spanish (native), Kichwa (native), English.

**Proficient in** Microsoft Word, Power Point, Excel, R, Python, QGIS, Stata, Gams, Arena.

**Fields** Primary fields: Development & Growth Economics.

Secondary fields: Andean economics, Data science, Economic Policy

### **Professional Experience**

Present	Ministry of indigenous and Afro-descendants Peoples Affairs	Ecuador
July 2021	Director of inter-institutional relations and international cooperation	

- Representative for the Statistics Commission of Indigenous, Black and Montubios Peoples (CEPIAM in spanish) of the National Institute of Statistics and Censuses.
- Represented Minister Pachala in the international visit in Washington DC in the Organization of American States, Inter-American Development Bank, USAID and the World Bank.
- Coordinated, monitored and evaluated the World Bank loan for the development of indigenous economies: "Territorial economic empowerment for the indigenous, afroecuadorians and montubian peoples and nationalities (TEEIPAM) project".
- Developed the English program for indigenous and afroecuadorians students through the assistance of the Embassy of the United States and the Government of the Dominican Republic.

- Developed and monitored social, economic, and educational projects for the technical and financial cooperation through international organizations such as JICA, European Union, AECID, UNDP, Embassy of the United States, Embassy of Japan, Embassy of Hungary, etc.
- Coordinated official ministerial visits to organizations such as the United Nations in New York, FILAC in Bolivia, and in Ecuador to the Embassy of the United States, Canada, China, Spain, and the European Union.

April 2022 Consultant  
November 2021 United Nations Fund for Population Activities-UNFPA

- Developed the Statistics Report for indigenous and black peoples of Ecuador.
- Developed the statistics dashboard for indigenous and black peoples according to the 2010 census of Ecuador, and demographic maps with geographic information systems.

Dashboard video  
<https://rb.gy/dd4xbq>

June 2021 Ministry of Economy and Finance Quito, Ecuador  
August 2020 Analyst

- Analyzed how Ecuador's economic resources are distributed from the Central Government to all local governments and how these resources are spent by local governments
- Developed the Financial Performance Indicator and a dashboard in R for the analysis of all local governments in Ecuador

Dashboard video  
<https://rb.gy/kf9lbw>

July 2020 Riobamba Electric Company Riobamba, Ecuador  
May 2020 Consultant

- Determined in which indigenous communities to install solar panels and what type according to its geographical position.

April 2020 Local Government of Guamote Guamote, Ecuador  
January 2020 Deputy Director of Economic Development

- Conducted entrepreneurship and digital literacy programs in indigenous communities
- Analyzed the socioeconomic situation of the city through the use of data science techniques.

January 2020 Guarachuro Center of Cultural Research Quito, Ecuador  
November 2018 Cultural and Educational Researcher

- Determined which academic programs should be created in the indigenous university "Amawtay Wasi" based on the needs of the indigenous population.
- Analyzed the socioeconomic implications of Artificial Intelligence in Ecuador

October 2018 National Polytechnic School Quito, Ecuador Quito, Ecuador  
August 2017 Research Assistant

- Focused studies on the future of work in Ecuadorian society.
- Studied unemployment in Ecuador's indigenous community.
- Studied the development of the Andean Human Development Index.
- Studied Economic Inequality in indigenous communities, perceptions in the Gini coefficient.

- Analyzed financial regulation in Ecuador from the period of 2020 to 2017.

December 2016	National Polytechnic School Quito, Ecuador	Quito, Ecuador
January 2016	Research Assistant	

- Analyzed dollarization in Ecuador.
- Participated in economic analysis of activities in Ecuador.
- Conducted macroeconomic analysis of the monetary policies in Ecuador.
- Professor's assistant in an economic policy course.

April 2015	Senplades Quito, Ecuador	Quito, Ecuador
February 2015	Economic Assistant	

- Studied the general state Budget for provincial and municipal governments, parochial groups.
- Analyzed cadastral taxes in Quito city.
- Analyzed public resource distribution by the Territorial Equity Model (TEM).

**English course:**

2017	Full-Time English as a Second Language
Boston	Target International Student Center

**Courses:**

2022	Project Proposals and Management Cyber4Dev-Euperean Union
2018	Massive Open Online Course (MOOC) "The new digital economy in Latin America", Inter-American Development Bank.
2018	Massive Open Online Course (MOOC) "Foreign investment as an engine of Latin American development", Inter-American Development Bank.
2018	Massive Open Online Course (MOOC) "The Korean Economic Development" Yonsei University.
2018	Massive Open Online Course (MOOC) "Crowdfunding University of Pennsylvania".
2018	Massive Open Online Course (MOOC) "Latin American social reality, Inter-American Development Bank".
2017	Massive Open Online Course (MOOC) "From poverty to Prosperity", Oxford University.
2017	Massive Open Online Course (MOOC) "Data for Effective Policy Making", Inter-American Development Bank.
2017	Massive Open Online Course (MOOC) "Macroeconometric Forecasting, International Monetary Fund.
2017	Massive Open Online Course (MOOC) "The Data Scientist's Toolbox", Johns Hopkins University.

## **References**

Luis Felipe Duchicela  
Vice President Global Indigenous and Community Engagement, BHP  
[lfduchicela@gmail.com](mailto:lfduchicela@gmail.com)

Gretty Vargas Sánchez  
Minister for Indigenous and Afro-descendants Peoples Affairs  
[gretty.vargas@sgdpcn.gob.ec](mailto:gretty.vargas@sgdpcn.gob.ec)

José María Medina  
Head of Cooperation at European Union-Ecuador  
[Jose-Maria.MEDINA-NAVARRO@eeas.europa.eu](mailto:Jose-Maria.MEDINA-NAVARRO@eeas.europa.eu)

Tommy Pan Fang  
Harvard Business School  
[tpanfang@hbs.edu](mailto:tpanfang@hbs.edu)

## **Acceptance to Bootcamp**

2018 MIT Innovation & Entrepreneurship Bootcamp.  
Massachusetts Institute of Technology

## **Honors, and Awards**

2018 “National Youth Award 2018, Academic Merit”. National Council for the Equality of Indigenous Communities, Quito - Ecuador.

2017 MIT Ideas Global Challenge “Pokuni Community House”, Massachusetts Institute of Technology (MIT), Cambridge – United States.

2012 “MANOS PROJECT”, United States Embassy, Quito – Ecuador

## **Grants:**

102 500 USD Embassy of the United States of America in Ecuador 2022  
English Scholarship Program “College Horizons Outreach Program”

## **Leadership and social projects**

2020-Present Founder of the Observatory of Indigenous Economies

2019-Present Founder of the Kichwa Institute of Science, Technology and Humanities

2018-Present Key member of the research network “PhD Network Ecuador”.

2018-2019 Co-Founder of the social, artistic and scientific movement “New Ideas”.

2016-2017 Founder of the Indigenous Students Association of the National Polytechnic School.

2012-2015 Founder of the research and cultural group “TULDUPAY”.

2007-2019 Founder of the educational volunteer group “MANOS”.

### **Literary Publication**

- 2014 El matrimonio en las comunidades kichwas de Quinchuqui – Peguche (Marriage in the Kichwa communities of Quinchuqui-Peguche)
- 2012 Si yo estuviera en un laberinto (If I were in a maze)
- In process Una breve historia de la economía de los Kichwas Otavalo (A brief history of the Kichwas Otavalo economy).
- In process Andean Human Development Index, a new approach on Development.

### **Conferences:**

- 2022 *Science and Technology for Indigenous Peoples*  
National Polytechnic School-Ecuador
- 2021 *Ancestral knowledge and intellectual property in Ecuador*  
University of Waikato-New Zeland (virtual)

### **Academic Interviews**

- 2017 Noam Chomsky (Professor of Linguistics), Massachusetts Institute of Technology (MIT).
- 2017 Daron Acemoglu (Professor of Economics), Massachusetts Institute of Technology (MIT).
- 2017 Ricardo Hausmann (Director Center for International Development- Kennedy School of Government), Harvard University.
- 2017 Jean Tirole (Nobel Prize in Economics 2014), Massachusetts Insitute of Technology (MIT).
- 2014 Amartya Sen (Nobel Prize in Economics 1998), Harvard University.
- 2014 Eric Maskin (Nobel Prize in Economics 2007), Harvard University.