

# Esteban Iglesias Manríquez

**MSc in Applied Economics & Electrical Engineer.** Universidad de Chile and École Centrale Paris.  
Lover of renewable energy, electricity markets, energy economics, data analysis, research and languages.  
Passionate about complex problems and challenges, contributing with my proactivity designing solutions.

## Education

- Mar. 2016 **Center for Applied Economics, Universidad de Chile, Santiago, Chile.**  
to Dec. 2018 Degree: MSc in Applied Economics (MAGCEA). Thesis in Renewable Electricity Markets and Demand Response "*Demand Response and Renewable Energy Integration in the Chilean Electricity Market*".
- Mar. 2011 **Universidad de Chile, Santiago, Chile.**  
to Jul. 2017 Degree: Civil and Electrical Engineer. Assistant teacher in Economics and Electronics, Robotics & Arduino Labs.
- Jul. 2015 **Beihang University (BUAA), Beijing, China.**  
to Aug. 2015 *Summer School* Student. Subjs: Renewable Energy Systems, Smart Grids, Chinese Language.
- Sep. 2013 **École Centrale Paris, Paris, France.**  
to Jun. 2015 Degree: MSc Generalist Engineering. Top 3 graduate engineering schools in France. Eiffel excellence scholarship. Subjs: Electric Energy Networks, Data Bases, Sustainable Development, Renewable Energy, Control Systems, Optoelectronics Technologies, Economics, Heat Transfer, Law, Machine Learning, Quantics Physics and French Language.
- Aug. 2008 **Valler Videregående Skole, Sandvika, Norway.**  
to Jul. 2009 One academic year Exchange during high-school. Multicultural experience.

## Research.

- May. 2020 **Massachusetts Institute of Technology, MIT, Online.**  
*Africa Takes on COVID-19.* Search for solutions to strengthen health systems in Africa.
- Nov. 2019 **Solar World Congress 2019, International Solar Energy Society, Santiago, Chile.**  
Presentation of the paper "*Thermal Performance Analysis of 28 PVT Solar Domestic Hot Water Installations in Western Europe*". (Brottier y Bennacer, 2019) in behalf of DualSun.
- Oct. 2018 **Pontificia Universidad Católica del Perú (PUCP), Lima, Peru.**  
Visiting researcher founded by the Konrad-Adenauer-Stiftung (KAS) foundation. Winner of the *Chile-Peru integration and good neighborhood* grant to write an article about renewable energy integration and electricity interconnection between Chile and Peru. Article published in both countries ("*Chile y el Perú Interconectados: Lineamientos para una política energética y de planificación eléctrica unificada y sinergias para una integración de energías renovables eficiente*" (Iglesias, 2019)).
- Jun. 2018 **University of Nottingham, Nottingham, United Kingdom.**  
Conference "*Sustainable development in Chile and Latin America: Where is the missing link?*". Presentation: "*Renewable Energies and Demand Response Market Design for the Chilean Electricity Market*".
- Jan. 2018 **Environmental Change Institute, University of Oxford, Oxford, United Kingdom.**  
to Jun. 2018 Visiting researcher at the *Lower Carbon Futures Programme* and the *Integrating Renewable Energy* research group.
- Oct. 2016 **EuroSun 2016, Palma de Mallorca, Spain.**  
International Conference on Solar Energy for Buildings and Industry. Presentation of the paper: "*Pressure drop in parallel flow flat-plate PVT collectors*" (Iglesias et al., 2016).

## Professional Experience.

- Mar. 2020 **Yachay Data**, *Santiago, Chile*.  
to Jun. 2020 Repository creation and data analysis of the COVID-19 evolution in Chile and in the world. Creation of the WebApp *mapacovid.cl*, the repository *github.com/YachayData/COVID-19*, editor y founder of the Instagram page *@yachay.data*
- Oct. 2019 **Huite Solar**, *Huite, Chiloé, Chile*.  
to Feb. 2020 Design and implementation of an *off-grid* photovoltaic and thermal solar system in the Chiloé Island.
- Mar. 2019 **FundacEK youth talent foundation**, *Santiago, Chile*.  
to Nov. 2019 Design and implementation of Science and Robotics Workshops for kids.
- Sep. 2015 **DualSun**, *Marseille, France*.  
to Feb. 2016 Research & Development Internship in an innovative PV-T hybrid solar panels Start-up.
- Sept. 2014 **pedalSensors - the Arduino effect pedal**, *École Centrale Paris, France*.  
to June. 2015 Creation of an innovative guitar effects pedal controlled by the musician's body movements. Creator and leader of the project. Management of an international and diverse team. Innovation award.
- Jul. 2014 **Tamera Ecovillage**, *Portugal*.  
to Aug. 2014 Operator internship. Six-week volunteer work in organic permaculture farms.
- Sep. 2013 **FLUIDYN France**, *Paris, France*.  
to Jun. 2014 Development of a prototype mobile application for the prediction of local air quality in Paris.
- Apr. 2011 **Atacama Solar Challenge**, *Chile*.  
to Dec. 2012 Help on the organization of the first and second Latin American solar car race (now *Carrera Solar Atacama*).
- Mar. 2002 **Saint George's School Scouts and Guides Group**, *Santiago, Chile*.  
to Jun. 2013 Active member (March 2002 - Jan. 2012) - Leader and Treasurer (Jan. 2012 - June. 2013). Participation in the creation of an online registration and payment system for the camps.

## Languages.

Spanish	Mother tongue	English	C1 Level	French	C1 Level
Norwegian	B1 Level	Chinese	A1 Level		

## Software

- Programming Languages Matlab, Python, Pandas, Stata, PHP, SQL, Java, Javascript, Solidity, LaTeX, C++, Fortran, JuMP (Julia), M. VBA.
- Tools TRNSYS, HomerPro, Excel, Excel Macros, Google Sheets, Google Code, Linux Servers (advanced level), MySQL database management system, Version-control system Git, Ethereum Blockchain, ReactJS, NodeJS, Apache, nginx

## Other Activities.

- Music Trumpet, piano, guitar, Overtones Singing.
- Passions Vipassana Meditation, photography, trekking, backpacking, renewable energy, languages, teaching, electromagnetism, open source culture.