

PABLO ASTUDILLO-ESTEVEZ

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Doctoral researcher in Economic Geography and Complex Systems. More than fifteen years of experience in sustainable development and climate change. Main interests: economic development, inequality, natural resources and sustainability, complexity economics, network analysis, behavioral sciences. Worked with the UN Framework Convention on Climate Change, UN Conference for Sustainable Development Rio+20. Winner of several academic awards, including two World Bank prizes on development initiatives. Innate facility to lead and coordinate processes, excellent critical thinking and analytical skills.

EDUCATION

- **University of Oxford, UK** 2014-2017
DPhil (c) in Geography and the Environment
- **The University of Edinburgh, UK** 2012-2013
MSc in Environment and Development (Distinction)
- **Universidad Central del Ecuador, Ecuador** 2002-2008
Environmental Engineering

RELEVANT PROFESSIONAL EXPERIENCE

UNITED NATIONS ORGANIZATION - GOVERNMENT OF ECUADOR, 15 countries 2010-2012 / 2015

Delegate and negotiator for Sustainable Development and Climate Change

- Led the preparation of the Ecuadorian Delegation for the UNFCCC and UNCSD negotiations.
- Ecuadorian delegate for the construction of the **Sustainable Development Goals** and **New Institutional Framework for Sustainable Development** at the UNCSD process and Río + 20.
- Ecuadorian delegate and negotiator for the UNFCCC on climate change mitigation for developing countries, adaptation, technology transfer and response measures in the COP 16 in México, COP 17 in South Africa and in the latest **COP 21 in France**. Participated in the negotiations with G77+China, GRULAC, OPEC.
- Represented the Ecuadorian Government in various international forums on sustainable development.

MINISTRY OF ENVIRONMENT - Climate Change Under-Secretariat, Quito - Ecuador 2010-2012

Acting National Director of Climate Change Mitigation

International Climate and Sustainable Development Policy Coordinator

- Advised high-level decision-making bodies such as the National Secretariat for Planning and Development, Ministry of Foreign Affairs, Ministry of Non-Renewable Resources, Ministry of the Environment and others on national/international sustainable development and climate policy.
- Conducted policy and political analysis to guide decision-making on climate change mitigation; climate change and security; and sustainable development at a national and international level.
- Coordinated and advised the inter-ministerial working group for the development and implementation of the National Strategy for Climate Change, and contributed to the development of several national policies on climate change mitigation and sustainable development.
- Led and coordinated the inter-sectorial working group (energy, water, finance and other stakeholders) in the preparation, strategy creation and planning for the UNFCCC negotiations.
- Contributed to the development of the "Net Avoided Emissions" proposal, a new market mechanism for climate change mitigation, presented to the UNFCCC.

350.ORG, Quito – Ecuador, Washington, DC – USA 2009

Coordinator for Latin America

- Initiated, led and managed the implementation of the 350.org – *an international initiative to address climate change* – within the Spanish-speaking countries in Latin America.
- Constructed the 350.org network of public and private organizations as well as individuals working on climate change and sustainable development within Latin America.
- Promoted and conducted capacity building activities, workshops for example, to develop networking capabilities within the civil society community in the main cities of the region.

- Promoted and conducted local initiatives to empower groups and individuals working on climate change and sustainable development throughout Latin America.
- Built alliances with the public and private sectors to promote climate change emission targets.
- Created links for collaboration and networking between youth movements in Latin America, Africa and Asia.

United Nations Environment Programme – FEPA Foundation, Quito, Ecuador
National Coordinator and Founding Member of the GEO Juvenil Initiative in Ecuador

2006-2008

- Formed, led and managed the Initiative at the national level.
- Coordinated multilateral and governmental agencies, local organizations within the project and supported youth leaders in 19 (out of 21) provinces in Ecuador.
- Led and deployed more than 40 workshops to supported youths with the creation of their own local sustainable projects.
- Built a national network of more than 4,000 youths.
- Co-authored the book of *GEO Juvenil Ecuador* about the perceptions of environmental change by the Ecuadorian youth.
- Reviewed the existing literature on climate change and its impacts in Ecuador and authored the climate change chapter in the book.
- Systematized the contributions (texts, photography and paintings) from Ecuadorian youths across the country in the book.

RELEVANT RESEARCH EXPERIENCE

UNIVERSITY OF OXFORD, School of Geography and the Environment, UK

2014-2017

- Thesis title “*Path dependence, reinforcement mechanisms and economic complexity in oil exporting countries*”
- Compiled, managed and analyzed economic datasets with I/O tables from Ecuador and other similar economies.
- Developed Python scripts for network analysis and used Gephi for visualization.
- Created several Agent-Based Models in Python and Netlogo for data exploration.

OXFORD INTERNATIONAL INFRASTRUCTURE CONSORTIUM, University of Oxford, UK

2016

- Compiled a data set of more than 4000 investors, academics and policy makers interested in infrastructure development worldwide using data mining techniques.

SUSTAINABLE FINANCE PROGRAMME, Smith School of Enterprise and Environment, UK

2015

- Co-authored the Lloyd’s Report on the Impacts of Stranded Assets in the insurance industry, forthcoming.
- Supported the assembling and compilation of a global database on thermoelectric power plants and carbon dioxide emissions – one of the most comprehensive in the world.
- Documented the discussions on the Inter-American Development Bank’s Round Tables on Stranded Assets.

UNIVERSITY OF EDINBURGH, School of Geosciences, Edinburgh, UK

2013

- MSc Dissertation on “the Sumak Kawsay: a new environment and development paradigm” (Distinction).
- Conducted 20 elite interviews with relevant policy makers, academics and civil society and used discourse analysis to examine the interpretation of the Sumak Kawsay concept.
- Implemented policy and document analysis to identify the evolution and impact of the Sumak Kawsay concept in three National Development Plans (2007-2017) from Ecuador.

BAYER HealthCare and BAYER CropScience, Bayer Andina, Ecuador

2008

Coordinator Ecological Footprint Project at the Environment, Health and Safety Department

- Proposed and initiated the project for measuring the Ecological Footprint of Bayer business activities in Ecuador.
- Developed and implemented the methodology for the project at a national scale.
- Presented the results to the Board of Directors in Ecuador and developed a plan for reducing the Ecological Footprint. The project was successfully implemented.

REPORTS (available at www.pastudillo.com)

- Caldecott, B., Dericks, G., Astudillo, P., Pfeiffer, A. (2017). *Stranded Assets: The transition to a low carbon economy*. Emerging Risk Report. Lloyd’s. London. (in press)

- Aguinaga, G., Astudillo, P., Cardenas, S., Delgado, I., Garces, D., Guerrero, C., Hernandez, S., Merizalde, M., Pilco, D., Riofrio, L., Torres, C., Velasco, P., Vergara, A., Yopez, A. (2011). *Informe GEO Juvenil Ecuador*. UNEP – ROLAC. Quito. [Spanish]
- Astudillo, P. (2011). [National and International Governance Context, Recuadros]. In Garzon, A. (ed). *REDD+ in Ecuador: An opportunity to mitigate climate change*. Ministry of Environment – Ecuador. Quito. [Spanish].

WORKING PAPERS

- Astudillo, P. (2017). *Commodity exporting economies and path dependence*.
- Astudillo, P. (2017). *The evolution of the Ecuadorian economy, a complexity approach*.
- Astudillo, P., Djokic, D. (2017). *Behavioural constraints and risk aversion for knowledge creation*.
- Astudillo, P., Sttadon, S. (2016). *Sumak Kawsay or Buen Vivir, an alternative epistemology for understanding development*.
- Astudillo, P. (2013). *The Sumak Kawsay: a new environment and development paradigm*
MSc. at the University of Edinburgh (*dissertation*)
- Astudillo, P. (2011). *“Open Source” structures and citizen participation for national and international climate policy*
Dipl. at Instituto Latinoamericano de Ciencias (*dissertation*)
- Astudillo, P. (2009). *Ecological Footprint, a methodological proposal for Bayer A.G. in Ecuador*
BSc at Universidad Central del Ecuador (*dissertation*)

CONFERENCES AND WORKSHOPS PRESENTATIONS

- Association of American Geographers Annual Meeting, Boston. April 2017
- Institute for New Economic Thinking, YSI Plenary, Complexity Economics Working Group. Budapest. October 2016
- Institute for New Economic Thinking, Complexity Economics Workshop. Toronto. April 2016
- VI Congreso Iberoamericano de Ambiente y Desarrollo. Quito. Diciembre 2013
- UNFCCC, Climate Change Mitigation Workshop. Auckland. Sept 2011

AWARDS

- SENESCYT Scholarship of Excellence 2014-2018
- SENESCYT Scholarship of Excellence 2012-2013
- Organization of American States, Full Scholarship 2011
- World Bank, Development Marketplace First Prize 2007

TEACHING EXPERIENCE

Universidad Central del Ecuador. Lecturer, Introduction to Environmental Protection and Management. March – August 2011

MEMBERSHIPS

Institute for New Economic Thinking (INET) – YSI
Society of Petroleum Engineers

Association of American Geographers (AAG)
Oxford Union

TECHNICAL SKILLS

Python, NetLogo, ARC GIS, Java Script (beginner)
Agent-Based Modelling, Machine Learning (beginner)

Languages: English (fluent), Spanish (native).
