

## PERSONAL INFORMATION



### JULIO VARGAS

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Marital status: Not married | Date of birth: 21 November 1981 | Nationality: Guatemalan

## EDUCATION AND TRAINING

- 25 Feb 2013 – 22 Jul 2014 **Master of Environmental Management**  
The University of Queensland, Brisbane, Australia. GPA: A+  
Thesis title: "Effective Carbon Emission Reductions from Using Supplementary Cementitious Materials in Cement Industry."
- 1 Jan 2000 – 30 May 2005 **Chemical Engineer, Bachelor of Science (Honours)**  
Universidad de San Carlos de Guatemala, Guatemala City, Guatemala.

## WORK EXPERIENCE

- 1 Jul 2019 - present **Researcher**  
Researcher at the School of Chemical Engineering, Faculty of Engineering, San Carlos University of Guatemala. Main research topics: sustainable development, climate change, production and consumption, industrial symbiosis, circular economy. Currently serving as Thesis Advisor for a group of 15 students on different topics within the scope of Chemical Engineering and with an environmental/sustainability approach.
- 1 Jul 2017 - present **Lecturer**  
Lecturer of the course of Experimental Practices of Physical Chemistry at the School of Chemical Engineering, San Carlos University. Guatemala.
- 6 Feb 2017 - present **External Professional Consultant / Researcher**  
Consultant for performing the National Mercury Inventory for the Minamata Initial Assessment for the Minamata Convention on Mercury in Guatemala.  
UNIDO / Guatemalan Ministry of Environment and Natural Resources
- 19 Oct 2015 – 30 Apr 2016 **External Professional Consultant / Researcher**  
Consultant for the National Inventory on Unintentional Emissions as part from the National Implementation Plan for the Stockholm Convention in Guatemala.  
UNIDO / Guatemalan Ministry of Environment and Natural Resources
- 3 Oct 2005 – 14 Dec 2012 **Process Engineer**  
Process and Optimisation Engineering in the cement manufacturing plant from Cementos Progreso. Cementos Progreso, Sanarate, El Progreso, Guatemala.

## PUBLICATIONS, POSTERS AND CONFERENCES

- May 2015 – Peer reviewed publication *"Effective Carbon Emission Reductions from Using Supplementary Cementitious Materials in Cement Industry."* (Vargas, J. Halog, A.). Published in the Journal of Cleaner Production. Publication date, June 2015. DOI:10.1016/j.jclepro.2015.04.136
- Jun 2014 – Oral presentation *"Prototype Dynamic System Model for Analysing the Carbon Emission Reduction Benefits from the Use of Fly Ash as a Supplementary Cementitious Material in the Cement"*

*Industry.*” Fourth Annual Asian Conference on Sustainability, Energy and the Environment. Osaka, Japan.

Mar 2016 – Poster presentation *“Prototype Dynamic System Model for Analysing the Carbon Emission Reduction Benefits from the Use of Fly Ash as a Supplementary Cementitious Material in the Cement Industry”*. ISIE Americas Meeting 2016. Industrial Ecology and Green Transformation. Bogotá, Colombia.

Aug 2019 – Under writing process for a peer reviewed publication *“From waste to wealth: an industrial ecology approach towards the use of wastes from the dairy industry in South Mexico”*. Under writing process to be published in the peer-reviewed Journal of Cleaner Production. With the collaboration of Mexican researchers from the Martínez Technology Institute of Veracruz, Estado de Veracruz, Mexico.

## AWARDS

3 Oct 2016 – 28 Oct 2016 International Sustainable Energy Development Centre (ISED) UNESCO/ISED Co-Sponsored Fellowships Programme 2016. 4 week course in “Energy Management and Energy Efficiency”. Moscow, Russian Federation.

29 Jun 2015 – 10 Jul 2015 UNIDO Green Industries Course Full scholarship. 2 week course in Central European University: “Green Industry”. Budapest, Hungary.

Jan 2013 – Aug 2014 Australia Awards Scholarship (AusAID). Full scholarship. Master’s degree at The University of Queensland. Brisbane, Australia.

## ADDITIONAL EXPERIENCE

1 Jan 2015 - present **Voluntary academic advisor**  
Academic advisor at INDESGUA (Institute for the Development of Higher Education of Guatemala. Support and guidance to Guatemalan students looking for academic opportunities such as undergrad and master’s degree scholarships locally and abroad.

1 Jan 2016 - present **Reviewer**  
Anonymous reviewer for the Journal of Cleaner Production. Main activities: anonymous reviewer for the Journal of Cleaner Production as part of the process of peer-reviewing manuscripts for publication. Experience of 30+ peer-reviewed articles.

## LANGUAGES

Spanish Mother tongue

English Advanced level (C1)

German Beginner level (A1)

## PROFESSIONAL REFERENCES

1. Anthony Halog, PhD, MBA. Lecturer in Industrial Environmental Management/LCA. School of Geography, Planning & Environmental Management. The University of Queensland. Brisbane QLD 4072 Australia. Phone: (+61) 7 336 56141. E-mail: a.halog@uq.edu.au.
2. Federico Salazar, Msc. Universidad Mariano Gálvez de Guatemala. Facultad de Ingeniería. Ciudad de Guatemala, Guatemala. Phone: (+502) 4473 2973. Email: federicos175@gmail.com
3. Adolfo Gramajo, PhD. Coordinator. Physical Chemistry and Thermodynamics Department, School of Chemical Engineering, Faculty of Engineering. University of San Carlos of Guatemala. Building T5, Ciudad Universitaria, 01012, Guatemala, Guatemala. Phone: +(502) 5978 3906. Work: +(502) 2418 9118. Email: angramajo@ing.usac.edu.gt / adolfogramajo@gmail.com