

PERSONAL INFORMATION

Silvia Margarita Calderón



📍 Hiihtäjääntie 6A 16 Kuopio, Finland 70200

☎ +358 413137137 📞 +358 413137137

✉ silviacalderon@fmi.fi, silviamargaritacalderon@gmail.com

Gender Female

 <https://orcid.org/0000-0002-8435-6658>

 Silvia_Calderon2

WORK EXPERIENCE

February 2021– Present

Researcher

Atmospheric Research Center of Eastern Finland, Finnish Meteorological Institute
P.O.Box 1627, FI-70211 Kuopio, Finland

Research activities focused on aerosol–cloud interactions in the stratocumulus-capped boundary layer. Large-eddy simulation of cloud formation.

November 2018 – January 2021

Senior Research Fellow

Nano and Molecular Research Unit, Faculty of Sciences, Oulu University
Nanomo, Box 3000, FIN-90041, Finland

Research activities on surfactant-induced effects during condensational growth and cloud activation of atmospheric aerosols. Bulk-surface partitioning in aqueous solutions of surfactants and inorganic salts.

November 2018 – March 1999

Professor

School of Chemical Engineering, University of Los Andes
Mérida, Venezuela

Teaching experience in undergraduate and graduate courses about chemical engineering thermodynamics, physical chemistry for chemical engineers, engineering applied mathematics, laboratory courses on Instrumental Analysis, Physical Chemistry, Analytical Chemistry. Curriculum development in Air Pollution Control, Solid Waste Management, Laboratory of Environmental Pollution Control, Fate and Transport of Chemicals in the Environment (Chemodynamics). Supervisor and revisor of BSc and MSc thesis. A detailed description of my teaching experience can be found in my Teaching Portfolio, available [here](#)

Visiting Professor

- University of Guayaquil, Ecuador, December, 2016
- Escuela Politécnica Superior del Chimborazo, Ecuador, November 2015

2011–2010, 2008–2007

Head of Department

Applied and Industrial Chemistry, School of Chemical Engineering, University of Los Andes, Venezuela

- Supervising and evaluating personnel performance
- Recruiting personnel, organizing class schedules and write grant proposals for laboratory equipment and supplies

RESEARCH EXPERIENCE

2021–
Researcher
The FORcES project

Constrained aerosol forcing for improved climate projections: Understanding and reducing the long-standing uncertainty in anthropogenic aerosol radiative forcing. European Union's Horizon 2020 research project and innovation programme under grant agreement No 821205 lead by Stockholm University, Sweden with participation of 22 research partners, including the Finnish Meteorological Institute.

2008–2010
Researcher
Mérida Atmospheric Research Station

Swedish-Venezuelan Project funded by Swedish Research Council (Vetenskapsrådet) and Swedish Development Agency (SIDA) with the Stockholm University and University of Los Andes to do measurements, analysis of the of aerosol properties in tropical free troposphere.

2003–2006
Research Assistant
Bay Regional Atmospheric Chemistry Experiment (BRACE)

Chemical and Biochemical Engineering Department, University of South Florida, USA

Research activities related to the sampling and modeling of the nitrogen wet deposition flux over the Tampa Bay area. This project was funded by the Florida Department of Environment Protection (FDEP), with the support of National Oceanic and Atmospheric Administration (NOAA) and the United States Environmental Protection Agency (USEPA)

Career breaks
Maternity leaves 2009 July–2010 March and 2012 August–2013 April

EDUCATION AND TRAINING

2006–2002
PhD in Chemical Engineering

Chemical and Biochemical Engineering Department. College of Engineering. University of South Florida, United States

PhD - Thesis Title: "Estimation of the particle and gas scavenging contributions to wet deposition of organic and inorganic nitrogen"

2002–1999
MSc in Engineering Applied Mathematics

University of Los Andes, Venezuela

MSc - Thesis Title: "Numerical study on Gas-Liquid Systems under laminar regime flowing on vertical pipes using Population Balance Techniques"

1998-1992
BSc in Chemical Engineering

University of Los Andes, Venezuela

BSc - Thesis Title: "Computational module to teach about Distillation"

SCIENTIFIC ACKNOWLEDGMENTS AND AWARDS

2019 and 2018
Seal of Excellence for the project proposal AIEMARAC Activity and Interface Enhanced Modeling of Aerosol Activation for κ -Köhler outliers submitted under the Horizon 2020's Marie Skłodowska-Curie actions calls 2018 and 2019

2018
Researcher profile added to the book: "Young women of Science: inspirational life stories" published by the Venezuelan Academy of Physical, Mathematical and Natural Sciences

2017, 2015, 2013
Teaching Award (4th place of the Engineering Faculty) in the Teaching Effectiveness Evaluation Program performed by the Academic Dean of the University of Los Andes

2013
Distinction "Dr. Mariano Picón Salas" due to an outstanding contribution to higher education programs given by the Academic Dean of the University of Los Andes

2012
Medal for academic merits by the ULA Association of University Professors. Mérida, December, 2012

- . 2005 First Prize on the Student Scholarship Competition of the Air and Waste Management Association(A&WMA) (US dollars 7500)
- 2005 Milton Feldstein Award by the Air and Waste Management Association (A&WMA) as recognition of the work on air quality issues (USA)
- 2005 Honorary Award as Outstanding Research Assistant, Chemical and Biochemical Engineering Department, University of South Florida, USA
- 2004 Axel Hendrickson Scholarship by the Florida Chapter of the Air and Waste Management Association. March (US dollars 1000)

ADDITIONAL INFORMATION

List of Publications

<https://www.researchgate.net/profile/Silvia-Calderon-3/research>