

GÉNESIS BETZABETH GONZÁLEZ CONTRERAS

PROFESSOR - RESEARCHER



CONTACT INFORMATION

+58 412 903 93 98
gonzalezcgenesisb@gmail.com
El Valle, Caracas, 1090

PERSONAL INFORMATION

Date of birth
07/03/1991
Nationality
Venezuelan

LANGUAGES

Spanish (native)

English

French

EXPERIENCE

Full-time instructor professor. School of Chemistry. Faculty of Sciences. Universidad Central de Venezuela. Caracas
June 2018 – Currently
Physiochemistry Department

Internship. Hydrocarbon Physiochemistry. School of Chemistry. Faculty of Sciences. Universidad Central de Venezuela. Caracas
May 2015 – May 2016
Handling, separation, and fractionation of Venezuelan crude oil and their interaction with glass.

Laboratory analyst. Natural Services SHA Laboratory. Caracas
November 2016 – January 2018
Analysis of natural, potable, and residuals waters.

ABOUT ME

University professor in the physiochemistry department and researcher in the area of physiochemistry of hydrocarbons (specifically asphaltenes) and their interaction with silicon oxide nanoparticles, with the objective of improving the properties of the parent crude oil.

EDUCATION

PhD in Chemistry. University of Pau and Adour countries (UPPA). Pau, France
September 2018 – November 2021

Doctorate in co-tutelage between UPPA and UCV, in the framework of a cooperation between the universities through the Marcel Roche Network.

Thesis title: study of the adsorption of asphaltenes and their subfractions A1 and A2 onto SiO₂ nanoparticles by metallo-petroleomic techniques.

PhD in Chemistry. Universidad Central de Venezuela. Caracas
September 2017 – May 2023

Bachelor's Degree in Chemistry. Universidad Central de Venezuela. Caracas
September 2008 – July 2016

PUBLICATIONS

Study of Very High Molecular Weight Cluster Presence in THF Solution of Asphaltenes and Subfractions A1 and A2, by Gel Permeation Chromatography with Inductively Coupled Plasma Mass Spectrometry. González, G.; Acevedo, S.; Castillo, J.; Villegas, O.; Ranaudo, M. A.; Guzmán, K.; Orea, M.; Bouyssiére, B. *Energy and Fuels* 2020, 34 (10), 12535–12544.

Evidence of selective asphaltene subfraction adsorption on SiO₂ nanoparticles studied by UV-vis absorbance and fluorescence spectroscopy.

Castillo, J.; Vargas, V.; Gonzalez, G.; Ruiz, W.; Bouyssiére, B.. *Journal of Dispersion Science and Technology* 2020, 1–7.



REFERENCES

Dr. Jimmy Castillo

Universidad Central de
Venezuela
+58 412 615 52 42
castijimmy@gmail.com

Dr. Brice Bouyssiére

Université de Pau et des
Pays de l'Adour
+33 5 59 40 77 52
brice.bouyssiére@univ-
pau.fr

**Dra. María Antonieta
Ranaudo**

Universidad Central de
Venezuela
+58 414 254 18 45
mranaudo@gmail.com

COURSES

Public Speaking for Scientists (14 hours). Doctoral School of Exact Sciences and their Applications. University of Pau

December 2019

Teaching, instruction manual (14 hours). Doctoral School of Exact Sciences and their Applications. University of Pau

December 2019

French language and culture, objective B1 (52 hours). Institute of French Studies for Foreign Students. University of Pau

September – December 2019

Introduction to scientific writing in English (10 hours). Doctoral School of Exact Sciences and their Applications. University of Pau

May 2019

The basics of force spectroscopy by AFM (10 hours). Institute of Analytical Sciences and Physical Chemistry for the Environment and Materials (IPREM). University of Pau

May 2019

Training in documentary research and scientific publication (12 hours). Doctoral School of Exact Sciences and their Applications. University of Pau

January 2019

English (648 hours). FUNDEIM Language Courses. School of Modern Languages. Faculty of Humanities and Education. Universidad Central de Venezuela.

January 2013 – January 2016

Spectroscopic techniques applied to the study of petroleum and its derivatives (8 hours). School of Chemistry. Faculty of Sciences. Universidad Central de Venezuela.

May 2011

WORKS PRESENTED

Super high molecular weight cluster presence in THF solutions of asphaltenes and subfractions A1 and A2, by GPC-ICP HR MS crude oil maturity relationship. González Génesis, Acevedo Sócrates, Castillo Jimmy, Ranaudo María Antonieta, Orea Miguel, Bouyssiére Brice. **Petro Phase 2021**. Oral presentation.

June 2021

Study of SiO₂@Fe composite nanoparticles by spICP MS and GPC-ICP MS and their use for vanadium separation in asphaltenes. Génesis González, Jimmy Castillo, Vicmary Vargas, Wladimir Ruiz, B. Bouyssiére. **Petro Phase 2021**. Poster.

June 2021

“Clusters de super alto peso molecular en soluciones de asfaltenos y sus subfracciones A1 y A2”. González Génesis, Acevedo Sócrates, Castillo Jimmy, Villegas Orlando, Ranaudo María Antonieta, Orea Miguel, Bouyssiére Brice. **LatinXChem Conferencia Twitter**. Poster. September 2020

“Estudio de la adsorción de asfaltenos sobre nanopartículas de SiO₂ empleando técnicas petroquímicas”. Génesis González, Jimmy Castillo,

Brice Bouyssiére, María Antonieta Ranaudo. **LXIX Annual concenterion
of the Asociación Venezolana para el Avance de la Ciencia
(AsoVAC)**. Oral presentation. November
2019