Nelson Alejandro Amaya Orozco
Cel: (+57)3185576343
Mail: nelsona.amayao@gmail.com

ACADEMIC TRAINING

Master in Bioengineering
Pontificia Universidad Javeriana
Bogotá, Colombia (2021- ongoing)

Chemical engineering
Fundación Universidad de América
Bogotá, Colombia (2016-2020)

PARTICIPATION IN RESEARCH PROJECTS

- January 2021 - December 2021. Pontificia Universidad Javeriana, Colombia.
  Research group: Environmental and Industrial Biotechnology Group (COLCIENCIAS A1) "Automation of an airlift photobioreactor to decrease the concentration of CO2 from an emission obtained by pyrolysis of lignocellulosic biomass" (Thesis)
- October 2020 - December 2020. Pontificia Universidad Javeriana, Colombia.
  Research group: Environmental and Industrial Biotechnology Group (COLCIENCIAS A1) Research project carried out in cooperation with the Universidad Javeriana and the Universidad Anáhuac de México "Evaluation of microbial communities and their relationship with the useful life of a laminar biocarrier, used in a treatment plant for non-domestic wastewater" (Research intern)

PARTICIPATION IN SCIENTIFIC EVENTS

- Nelson Alejandro Amaya Orozco. Speaker project in microbiology. XII international meeting of research seedbeds October 2015. RedCOLSI
- Co-author of work presented in the international symposium modality. Christy Andrea Plazas Rojas, Paula Andrea Muñoz Chacón, Dahian Sofía Espinosa González, Nelson Alejandro Amaya-Orozco, Claudia Marcela Rivera Hoyos, Lucas David Pedroza Camacho, Juan Camilo Lores Acosta, Adriana Inés Páez Morales, José Salvador Montaña Lara, Juan Carlos Salcedo Reyes, Laura Catalina Castillo Carvajal, Aura Marina Pedroza Rodríguez *. Non-domestic wastewater treatment and thermal conversion of biogenic biomass using a university biorefinery model. Biotechnology sessions of the Universidad Anahuac México Campus Norte. Biotechnology as a key point in the new normal. Online symposium. November 17, 2020.

PUBLICATIONS

- Christy Plazas- Rojas†, **Nelson Alejandro Amaya-Orozco**†, Wilmar Urrutía, Claudia M. Rivera-Hoyos, José Salvador Montaña-Lara, Adriana Páez Morales, Laura C. Castillo-Carvajal, Lucas David Pedroza-Camacho, Juan Camilo Lores Acosta, Juan Carlos Salcedo-Reyes, Aura M. Pedroza-Rodríguez. Co-pyrolisis of biogenic and lignocellusocic biomass for the production of biochar. *Biomass Conversion and Biorefinery. Submitted.* April 2021.
- **Nelson Alejandro Amaya-Orozco**, William Urrutia, José-Salvador Montaña-Lara, Juan C. Salcedo-Reyes, Laura Catalina Castillo-Carvajal, Aura M. Pedroza-Rodríguez, Adriana I. Páez-Morales. CO2 capture by Chlorella sp. in a bubble column photobioreactor released during biochar production and bio-product utilization. Colombian Journal of Biotechnology. In writing. April 2021.

PROFECRIONAL EXPERIENCE

- April 2021 – May 2021. Pontificia Universidad Javeriana
  Technical Assistance (Contractor)