

EXPERT'S PROFILE

Name of Grantee : **DANIEL E. IBARRA, PhD**
Area of Expertise : River chemistry and paleoclimate reconstructions

Inclusive Date of Contract as BSP Awardee : Short-Term Program
08- 18 January 2019
24- April – 04 May 2019
21- 28 June 2019

Host Institution : National Institute of Geological Sciences (NIGS)
- UP Diliman



EDUCATIONAL BACKGROUND

- **Ph.D., Earth System Science**, Stanford University, Stanford, CA, 09/2008-06/2018
- **M.S., Geological and Environmental Sciences**, 01/2014
- **B.S., Civil and Environmental Engineering** (Atmosphere/Energy Track), 06/2012
- **B.S., Geological and Environmental Sciences** (with Departmental Honors), 06/2012

PROFESSIONAL EXPERIENCE

- Winter 2018; Spring, 2015 & 2017 : **Co-instructor**
ESS 307: Research Proposal Development and Delivery
- 2011 - 2017 : **Co-instructor**
ESS/GS 12SC: Environmental and Geological Field Studies in the Rocky Mountains
- 2017 : **Teaching Assistant**
ESS/EarthSys 132/232: Evolution of Earth System
- 2016 : **Teaching Assistant**
CEE/ESS/Geophysics 146A/246A: Atmosphere, Oceans and Climate
- 2015 & 2016 : **Teaching Assistant**
Measurement in Earth System
- 2012 to 2014 : **Teaching Assistant**
GS/Geophysics
- 2013 : **Teaching Assistant**
Background and Environmental Impacts
- 2011 : **Sustainable Education Research Associate**

TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Provide technical expertise and conduct research on the collection of cave deposits to reconstruct past climate in the Philippines
2. Provide technical expertise and conduct research on river chemistry
3. Provide consultation and advise students on paleoclimate and geochemistry

4. Establish research collaboration with Standford University (USA), Institute de Physique du Globe de Paris (France) and Vanderbilt University (USA)
5. Deliver multiple seminars and workshops covering the following topics:
 - a. chemical weathering
 - b. climate reconstructions
 - c. global Climates
 - d. future rainfall reconstructions