

# Omar B. Soberano

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Dao Street, Poblacion, Mabinay, Negros Oriental, Philippines 6207

EDUCATION	<b>Research Student</b> <b>Akita University – Akita, Japan</b> MEXT Scholar (October 2021 - March 2022) Research topic: “Mineralization characteristics and ore-forming conditions of the Hokuryu gold deposit in Omu, Hokkaido, Japan” (Supervisor: Ryohei Takahashi, PhD)	2021-2022
	<b>Master of Science in Geology</b> <b>University of the Philippines – Diliman, Quezon City, Philippines</b> University Scholar (Research Staff), 3 semesters Specialization: Economic Geology Graduate Thesis: “Mineralization characteristics and style of the Suyoc prospect and their implications for the southern Mankayan Mineral District, Northern Luzon, Philippines” (Adviser: Jillian Aira S. Gabo-Ratio, DEng)	2017-2020
	<b>Bachelor of Science in Geology</b> <b>Negros Oriental State University, Dumaguete City, Philippines</b> Government Scholar (Department of Science and Technology) On the Job Training: Freeport-McMoran Cu-Au exploration at Sagay City, Philippines	2012-2016
WORK EXPERIENCES	<b>University of the Philippines – Diliman, Quezon City, Philippines</b> <b>University Research Associate</b> (Supervisor: Jillian Aira S. Gabo-Ratio, DEng) Geological mapping and underground vein investigation <ul style="list-style-type: none"> <li>Conducted 1:5,000 geological mapping at hydrothermally-mineralized area</li> <li>Described the attitude and macroscopic characteristics of underground veins</li> <li>Conducted petrographic analysis to rocks and vein samples collected</li> <li>Produced a 1:5,000 geologic map for ~25km<sup>2</sup> area</li> </ul> Fluid inclusion and geochemical analyses <ul style="list-style-type: none"> <li>Conducted fluid inclusion petrography and microthermometry for salinity and homogenization temperature of Au-bearing veins</li> <li>Performed mineral chemistry analysis to sphalerite crystals using Electron Probe Microanalyzer (EPMA) for FeS mole % composition</li> <li>Performed X-ray diffraction analysis to altered wallrocks of veins to determine clay mineral assemblage</li> <li>Interpreted oxygen, hydrogen, and sulfur stable isotope data for fluid evolution of veins</li> </ul>	2017-2018
	<b>Philippine Institute of Volcanology and Seismology, Quezon City, Philippines</b> <b>Science Research Analyst</b> (Project leader: Rommel Grutas, PhD) Geophysical survey <ul style="list-style-type: none"> <li>Performed refraction microtremor and microtremor array surveys in urban areas</li> </ul> Geophysical data processing <ul style="list-style-type: none"> <li>Performed processing of refraction microtremor signals using software i.e., ReMidDisperv 4.0 and ReMiVspectv 4.0</li> </ul> Community workshop <ul style="list-style-type: none"> <li>Presentation and workshop for Local Government Units about ground period microzonation map in Cebu City, Philippines</li> </ul>	2018

SCIENTIFIC CONFERENCE PRESENTATIONS	<b>Oral Presentations</b> SEG Travel Lecturer Series and Earth Science Colloquium: Critical Metals Quezon City, Philippines Presentation title: “Mineralization style of the Suyoc epithermal prospect, Mankayan Mineral District, Northern Luzon, Philippines”	2019
	GEOCON 2017, Geologists: Partners for Common Good and Social Justice Makati City, Philippines Presentation title: “Mineralization characteristics of the Suyoc epithermal prospect, Mankayan, Benguet, Philippines”	2017
	14 <sup>th</sup> NIGS Research Symposium, Paladutaan 2017: New Perspectives Quezon City, Philippines Presentation title: “Mineralization characteristics of Suyoc epithermal prospect, Mankayan, Benguet, Philippines”	2017
	<b>Poster Presentation</b> Challenges and Opportunities for Environmental Sustainability: Hunt for Ore Deposits Baguio City, Philippines Presentation title: “Epithermal mineralization characteristics of the Suyoc epithermal gold prospect, Mankayan Mineral District, Benguet, Philippines”	2017
TRAINING AND WORKSHOP	<b>Kyushu University, Fukuoka Prefecture, Japan</b> Japan Student Service Organization Student Exchange Program <ul style="list-style-type: none"> <li>• Practiced fluid inclusion analysis, X-ray Diffraction analysis, XRF analysis, and SEM-EDX analysis</li> </ul>	2017
	<b>IR-ODEX 2<sup>nd</sup> International short course, Tehran, Iran</b> Base and Precious Metal Deposit Models and Exploration <ul style="list-style-type: none"> <li>• Lecture by Jeffrey Hedenquist: “Epithermal Gold Deposits Formation and Exploration”</li> <li>• Lecture by Fernando Tornos: “Magnetite-Apatite and IOCG Deposits”</li> <li>• Lecture by Steve Garwin: “Regional Controls, Geology, Geochemical Expression and Geophysical Signature of Global Porphyry Cu-Au Deposits”</li> </ul>	2017
PUBLICATION	Soberano, O.B., Gabo-Ratio, J.A.S., Queaño, K.L., Dimalanta, C.B., Yumul, G.P., Jr., Andal, E.S., Yonezu, K., Boyce, A.J. (2021). Mineral Chemistry, fluid inclusion and stable isotope studies of the Suyoc epithermal veins: Insights to Au-C mineralization in the southern Mankayan Mineral District, Philippines. Ore Geology Reviews vol. 131, 10435. <a href="https://doi.org/10.1016/j.oregeorev.2021.104035">https://doi.org/10.1016/j.oregeorev.2021.104035</a>	2021