



## **CURRICULUM VITAE**

### **Dymphna Nolasco-Javier, PhD**

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 Contact Number: +63 74 442-7231  
 Research Interest/Discipline: **General geology,  
 Geographic Information Science, Landslides,  
 Climate Change**  
 PRC License Number: **Registered Geologist 870**



#### Educational Background

Duration: 2014-2018  
 Degree: PhD Geographic Information Science  
 University: University of New England, Australia  
 Dissertation Title: Investigating landslide triggering rainfall and susceptibility modelling in northern Philippines

Duration: 1991-1996  
 Degree: MS Geology  
 University: University of the Philippines Diliman, Quezon City  
 Thesis Title: A statistical evaluation of gold grade estimation by geostatistics, averaging, and inverse distance square methods as applied to a vein zone in Antamok, Benguet  
 Award: Department of Science & Technology Scholarship

Duration: 1975-1979  
 Degree: BS Geology  
 University: University of the Philippines Diliman, Quezon City

#### Work Experience

Duration: 2021 - present  
 Position/Designation: Professor  
 Employer: University of the Philippines Baguio

Duration: 2018 - present  
 Position/Designation: Dean of the College of Science  
 Employer: University of the Philippines Baguio

Duration: 2019 - 2020  
 Position/Designation: Associate Professor

Employer:	University of the Philippines Baguio
Duration:	1997 – 2018
Position/Designation:	Assistant Professor
Employer:	University of the Philippines Baguio
Duration:	1989 - 1997
Position/Designation:	Instructor
Employer:	University of the Philippines College Baguio
Duration:	1981 - 1989
Position/Designation:	Geostatistician
Employer:	Exploration and Development Division, Benguet Gold Operations, Benguet Corporation

### Major Administrative Posts

<b>Duration</b>	<b>Designation/ Committee</b>
2018 - present	Dean of the College of Science, UP Baguio
2012 – 2014	Head, Climate Change Program, UP Baguio Cordillera Studies Center
2005 - 2008	Secretary of the College of Science, UP Baguio

### Research Projects

<b>Duration</b>	<b>Research Project Details</b>
July 2022 – June 2024	<p>Program Title: <b>MULAT BLISTT – Modelling and Understanding Landslide Events in BLISTT (Baguio, La Trinidad, Itogon, Sablan, Tuba, Tublay)</b></p> <p>Project Title: Modelling susceptibility and generating rainfall threshold for rainfall-induced landslides</p> <p>Position: Program and Project Leader</p> <p>Funding agency: DOST-PCIEERD</p>
November 2018 – October 2019	<p>Title: <b>Landslide susceptibility and vulnerability assessment in one area in Bokod, Benguet</b></p> <p>Position: co-Project Leader</p> <p>Funding agency: UP Baguio Cordillera Studies Center</p>
November 2018 - November 2019	<p>Title: <b>Ecological assessment of abandoned mine tailings in Itogon, Benguet</b></p> <p>Position: Study Leader</p> <p>Funding agency: UP Baguio Cordillera Studies Center</p>
May 2014 – March 2015	<p>Title: <b>Small-scale Mining in Fidelisan, Sagada, Mountain Province</b></p> <p>Position: Study Leader</p> <p>Funding agency: Tebtebba Foundation</p>

January - August 2014	Title: <b>Change Starts Here: Making a Climate Smart and Disaster Preparedness Sensitive UP Baguio</b> Position: Study Leader Funding agency: United Nations World Food programme
January - December 2013	Title: <b>Establishing a Knowledge and Training Resource Center (KTRC) on Climate Change and Disaster Risk Reduction – Training and Writing Module Component</b> Position: Study Leader Funding agency: United Nations World Food programme
September 2012 - December 2013	Title: <b>Enhancing stakeholders' capability in utilizing the rainfall threshold in the landslide early warning system of Tublay, Benguet</b> Position: Project Leader Funding agency: United Nations World Food programme
July 2012 – November 2013	Title: <b>Asian Cities Adapt</b> Position: Researcher Funding agency: International Council for Local Environmental Initiatives – Southeast Asia Secretariat
July 2006 - June 2007	Title: <b>Ecological and Hydrologic Survey in Selected Communities in Tinglayan, Kalinga</b> Position: Study Leader Funding agencies: Rufford Foundation and UP Baguio Cordillera Studies Center

### Recent awards

January 2022 – 2024	One UP Professorial Chair in Geology (Geohazards) for Outstanding Teaching and Public service in UP Baguio
January 2021 – December 2023	One UP Faculty Grant in Geology (Environmental Geology) for Outstanding Teaching and Research in UP Baguio

### List of Publications

#### International Peer-reviewed Journal articles

1. **Javier, DN** and Kumar L (2019). Frequency ratio landslide susceptibility estimation in a tropical mountain region, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-3/W8, 173–179, <https://doi.org/10.5194/isprs-archives-XLII-3-W8-173-2019>
2. **Nolasco-Javier D** and Kumar L (2018). Deriving the rainfall threshold for shallow landslide early warning during tropical cyclones: a case study in northern Philippines. Natural Hazards, 90(2), 921-941. doi:10.1007/s11069-017-3081-2
3. Ezeonyejiaku CD, Obiakor MO, **Javier D**, Ifedigbo II, and Obiakor HC (2017). The scale effect of economic development and freshwater quality in Nigeria: Environmental pollution of the Lower River Niger Basin. African Journal of Science, Technology, Innovation and Development, 9(6), 761-784. doi:10.1080/20421338.2017.1380583

4. Tehrany MS, Shabani F., **Javier DN**, & Kumar L (2017). Soil erosion susceptibility mapping for current and 2100 climate conditions using evidential belief function and frequency ratio. *Geomatics, Natural Hazards and Risk*, 1-20. doi:10.1080/19475705.2017.1384406
5. **Nolasco-Javier D**, Kumar L, Tengonciang A (2015). Rapid appraisal of rainfall threshold and selected landslides in Baguio, Philippines *Natural Hazards* 78:1587-1607 doi:10.1007/s11069-015-1790-y
6. **Nolasco-Javier DD**, Tamayo Jr. RA, Dimalanta CB and Yumul Jr. GP (1994). The platinum market performance. *Journal of the Geological Society of the Philippines*, v. 49, pp. 229-239

### Book Chapters

1. **Nolasco-Javier, D.**, Kumar, L. (2021). Landslide Susceptibility Assessment Using Binary Logistic Regression in Northern Philippines. In: Guzzetti, F., Mihalić Arbanas, S., Reichenbach, P., Sassa, K., Bobrowsky, P.T., Takara, K. (eds) *Understanding and Reducing Landslide Disaster Risk*. WLF 2020. ICL Contribution to Landslide Disaster Risk Reduction. Springer, Cham. [https://doi.org/10.1007/978-3-030-60227-7\\_20](https://doi.org/10.1007/978-3-030-60227-7_20)
2. David CPC, Dulce RG, **Nolasco-Javier DD**, Zamoras LR, Jumawan FT and Newhall CG (1996). Changing proportions of two pumice types from the June 15, 1991 eruption of Mount Pinatubo in Newhall, C.G. and Punongbayan, R.S. (eds.) *Fire and Mud: Eruptions and lahars of Mount Pinatubo, Philippines: Quezon City, Philippine Institute of Volcanology and Seismology, and Seattle, University of Washington Press*, pp. 681- 685

### Conference Proceedings

1. **Nolasco-Javier DD**, Aguda NRR, Foronda JVM (2001). Preliminary analysis of heavy metal content of sediments in the Agno river, southern Benguet and northeastern Pangasinan. *First National Cordillera Studies Program Conference Proceedings volume: "Towards understanding peoples of the Cordillera: A review of research on history, governance, resources, institutions and living traditions"*, Cordillera Studies Center, pp. 91-93
2. **Nolasco-Javier DD** (1993). Nickel: more facts and trends. *Proceedings of GEOCON '92, the Fifth annual Geological convention, Geological Society of the Philippines*, pp. 123-132.
3. Tamayo Jr. RA, **Javier DDN** and Yumul Jr. GP (1993). The chromite trade: a study of international and domestic trends (1980-1990). *Proceedings of GEOCON '92, the Fifth annual Geological convention, Geological Society of the Philippines*, pp. 133-148.

### Others

1. Alangui, W. V., Austria, C. M., Gutierrez, R. M., **Javier, D. N.**, Hipol, R. M., Folloso, A. G., ... & Soriano, B. A. C. (2009). Participatory Mapping of the Natural Domain and Ecological and Hydrologic Survey in Selected Communities of Tinglayan, Kalinga. [http://rufford.org.s3.amazonaws.com/media/project\\_reports/16.05.07%20Detailed%20Final%20Report.pdf](http://rufford.org.s3.amazonaws.com/media/project_reports/16.05.07%20Detailed%20Final%20Report.pdf)
2. **Javier DN**, Deocariza MS, Aquitania VE (2013). Climate change, vulnerability assessment, development scenarios and adaptation strategies for Tuguegarao City, Cagayan Province, Philippines. Report for the International Council for Local Environmental Initiatives (ICLEI)- Southeast Asia and the City Government of Tuguegarao
3. **Javier DN**, Deocariza MS, Aquitania VE (2013). Climate change, vulnerability assessment, development scenarios and adaptation strategies for San Fernando City, La Union Province, Philippines. Report for the International Council for Local Environmental Initiatives (ICLEI)- Southeast Asia and the City Government of San Fernando
4. **Javier DN**, Deocariza MS, Aquitania VE (2013). Climate change, vulnerability assessment, development scenarios and adaptation strategies for Dagupan City, Pangasinan Province,

- Philippines. Report for the International Council for Local Environmental Initiatives (ICLEI)-Southeast Asia and the City government of Dagupan
5. **Javier DN**, Deocariza MS, Aquitania VE (2013). Climate change, vulnerability assessment, development scenarios and adaptation strategies for Baguio City, Benguet Province, Philippines. Report for International Council for Local Environmental Initiatives (ICLEI)-Southeast Asia and the City Government of Baguio
  6. **Javier DN**, 2012. When the Earth heats up: Frequently asked questions on climate change. Published by the Communication Foundation for Asia, 28 pp.

### Recent Research Presentations in International Conferences

<b>Date</b>	<b>Title of Presentation</b>	<b>Conference and Venue</b>
14-17 November 2023	Evaluating landslide susceptibility in northern Philippines using machine learning	Sixth World Landslide Forum, Florence, Italy
19-21 October 2023	Precipitation, Temperature, and Relative Humidity Trend analysis and its relation to landslide occurrence in Baguio City, Benguet, Philippines	22 <sup>nd</sup> Science Council for Asia General Assembly and Conference, Seoul, Korea
2-6 November 2021	Landslide Susceptibility Assessment Using Binary Logistic Regression in Northern Philippines	5th World Landslide Forum (Virtual)
5, 12, 19, 26 July 2021	Applications of GIS and Remote Sensing in Indigenous Peoples Communities in Benguet	3rd International Conference on Cordillera Studies (Virtual)
3-6 September 2019	Frequency ratio landslide susceptibility estimation in a tropical mountain region	Annual Geo-information for Disaster Management Conference, Prague, Czech Republic

### Recent Public Service engagements

<b>Date/s</b>	<b>Extension Service Details</b>
4-6 April 2024	Event: <b>29<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics</b> (Organized by UP Baguio) Role: Lecturer Title of Talk: Maps and GIS Applications in Science
27-29 April 2023	Event: <b>28<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics</b> (Organized by UP Baguio) Role: Lecturer

- Title of Talk: GIS and Geoportals to climate change science
- 21-23 April 2022      Event: **27<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics** (Online; Organized by UP Baguio)  
Role: Lecturer  
Title of Talk: Introduction to Climate change science
- 25-26 October 2021      Event: **Training and Refresher Course in Geological Data Analyses and Interpretation: A Seminar-Workshop** (Organized by the Cordillera Exploration Co., Inc.; held in Baguio)  
Role: Lecturer  
Title of Talk: Rainfall-induced Landslides
- 19-21 May 2021      Event: **26<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics** (Online; Organized by UP Baguio)  
Role: Lecturer  
Title of Talk: Landslide hazards: A case study in the Cordillera region
- 30 April 2021      Event: **Luzon Policy forum: Bioremediation to detoxify wastewater in mine tailings** (Online; Organized by DOST-NRCP and the Municipal government of Itogon)  
Role: Reactor to Paper presentation on “Microbial- Based Technologies for the Rehabilitation of Heavy Metal Contaminated Wastewater from Mining Site of Itogon, Benguet”
- 1 March 2021      Event: **Webinar-Workshop on Cordillera Earthquake Preparedness & Readiness Plan** (Organized by Office of Civil Defense-CAR RDRRM Council)  
Role: Resource Speaker  
Title of Talk: Initiatives in counter-earthquake and counter-disaster impact in UP Baguio
- 23 July 2020      Event: **Baguio City: Harmonizing People and Environment** (Online; Organized by the City Government of Baguio)  
Role: Lecturer  
Title of Talk: Hazards websites
- 19-20 November 2019      Event: **2019 Mines & Geosciences Bureau Annual Technical Forum** (Organized by MGB; held in Baguio)  
Role: Judge for Best Paper Presentations
- 17-18 April 2019      Event: **25<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics** (Organized by UP Baguio)  
Role: Lecturer  
Title of Talk: Places of Geological Interest (POGI)
- 21 August 2018      Event: **22<sup>nd</sup> Lopez Jaena Community Journalism workshop** (Organized by UP College of Mass Communication; held in Baguio)

Role: Lecturer

Title of Talk: Rapid appraisal of rainfall and landslides in Baguio

24-26 April 2018

Event: **24<sup>th</sup> Summer Institute in the Natural Sciences and Mathematics** (Organized by UP Baguio)

Role: Lecturer

Title of Talk: Maps and graphs: Interpretation of geospatial data

12 April 2018

Event: **2018 Careers Orientation and Research Congress of Philippine Science High School-CAR** (Organized by PSHS-CAR; held in Baguio)

Role: Lecturer

Title of Talk: Careers in Geology

### Membership in National/International Organizations

<b>Date/s</b>	<b>Organization Details</b>
2021 - present	Regular member, National Research Council of the Philippines
1999 - 2021	Associate member, National Research Council of the Philippines
1993 - present	Member, Geological Society of the Philippines

### Professional Development: Participation in Select Conferences/Trainings

<b>Date</b>	<b>Conference and Venue</b>
<b>International</b>	
10-11 March 2023	2023 NRCP Annual Scientific Conference and 90 <sup>th</sup> General Membership Assembly (Online)
29-30 November 2022	17 <sup>th</sup> APRU Multi-hazards symposium (Online)
15 March 2022	2022 NRCP Annual Scientific Conference and 89 <sup>th</sup> General Membership Assembly (Online)
6-8 December 2021	Virtual GEOSEA XVI – GeoCon2021 (16 <sup>th</sup> Regional Congress on Geology, Minerals and Energy Resources of Southeast Asia – Annual Geological Convention 2021)
28 July and 4 August 2021	2021 APRU Multi-Hazards Summer Lecture Series: Creating a Resilient Society Against Multiple Hazards (Online)
12-15 July 2021	2021 ESRI User Conference (Online)
10 March 2021	NRCP Annual Scientific Conference and 88 <sup>th</sup> General Membership Assembly (Online)

1-3 December 2020	Virtual GeoCon 2020 (Annual Geological Convention 2020)
13-16 July 2020	2020 ESRI User Conference (Online)
30 June 2020	NRCP Annual Scientific Conference and 87th General membership assembly (Online)
21-22 November 2019	International Conference in Southeast Asian Crafts & Folk Art, Baguio City
26-29 March 2019	31st AUN-QA Training course for accomplishing programme assessment (Tier 1), Bangkok, Thailand

### **National**

10,12,14,17,19,21,24,26 October 2022	UP QA Training workshop on how to do QA assessments (Online)
3-4 October 2022	UP System General education Conference (Online)
27 April 2021	STS 1 GE Conversations of the UP System GE Conference 2021 (Online)
9-11 May 2019	2nd Project GuHEAT (Geospatial Assessment and Modelling of Urban Heat Islands in Philippine Cities) Planning Workshop and training, Baguio
15-16 November 2018	First Philippine Data Festival, Makati

### **Local**

24-26 October 2022	Basic Artificial Intelligence, GIS and Remote sensing training series, Baguio City
13-24 July 2020	Online training on remote learning, UP Baguio
23 May 2019	Orientation-workshop on maximizing use of Elsevier's tools for research and publication, Baguio
4-5 December 2018	1st Regional forum on Landslides, Baguio City
11-13 July 2018	UP System GE Teaching Conference 2018, UP Diliman