

# EDNA P. MENDOZA

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Fort Worth, TX 76107  
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## EDUCATION

**PhD**, Public Health Sciences (Epidemiology concentration), Expected May, 2025  
*School of Public Health, University of North Texas Health Science Center*

**MS**, Public Health Sciences (Epidemiology track), 2023  
*School of Public Health, University of North Texas Health Science Center*

Master's Thesis: Multi-hazard assessment in Kyrgyz Republic's Osh Region using Maximum Entropy

**MEMDV**, Environmental Management and Development (Research track), 2017  
*Cranford School of Public Policy, Australian National University*

Research Paper: Adopting and implementing a framework for classifying, quantifying, and valuing soil natural capital and ecosystem services in the Philippines

**Postgraduate Diploma**, Environmental Science, 2009  
*Institute of Environmental Science and Meteorology, University of the Philippines – Diliman*

**BS**, Biochemistry, 2006  
*College of Science, De La Salle University – Manila*

Bachelor's Thesis: Fractionation, isolation, and characterization of some *Amorphophallus sp.* secondary metabolites

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## SUMMARY OF RESEARCH SKILLS

Field research work • project management • interviewing and data collection • data entry and management • statistical analysis (R and SAS) • geospatial mapping (ArcGIS) • survey methodology and design • online survey design and programming (Qualtrics and Google Form) • grant and proposal writing • oral presentations

## RESEARCH INTERESTS

Aging • gene-environment interactions • Alzheimer's Disease and Related Dementia • socioeconomic determinants of health • natural hazards and disasters • environmental health • disaster risk reduction and mitigation

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## AWARDS AND HONORS

Third Place, Three Minute Thesis, School of Public Health, UNTHSC, 2023

Grantee, Powerful Pens Visible Voices Program, Center for Health Policy, UNTHSC, 2023

Third Place, Research Poster Award, Research Appreciation Day, UNTHSC, 2023

Awardee, PhD in Public Health Sciences Scholarship, UNTHSC, 2021

Champion, Resilience Hackathon, IFC World Bank, 2022

Champion, Sustainability Hackathon, Australia-New Zealand Chamber of Commerce, 2021

Grantee, 2020 Alumni COVID-19 Development Grants Scheme, Australia Awards Alumni Engagement Program – Philippines, 2020

Awardee, Japan Student Services Organization Scholarship, Government of Japan, 2017

Engage Asia Travel Grantee, College of Asia and the Pacific, Australian National University, 2017

Awardee, Australia Awards Scholarship, Australian Government, 2016

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## RESEARCH EXPERIENCE

<b>Graduate Research Assistant</b> <i>UNTHSC School of Public Health Fort Worth, TX, USA</i>	August 2021 – Present
<b>Exchange Student</b> <i>Cultural Landscapes and Environmental Change University of Tokyo, Japan and Australian National University, Australia</i>	Jan 2017
<b>Research Analyst</b> <i>Methods for Environmental Decision Making Australian National University, Australia</i>	Oct 2016
<b>Supervising Science Research Specialist</b> <i>Philippine Institute of Volcanology and Seismology Manila, Philippines</i>	Jan 2015 – Apr 2016
<b>Senior Science Research Specialist</b> <i>Philippine Institute of Volcanology and Seismology Manila, Philippines</i>	Aug 2013 – Dec 2014
<b>Laboratory Manager</b> <i>Engineering Geology Laboratory, National Institute of Geological Sciences University of the Philippines – Diliman, QC, Manila</i>	Jun 2009 – Sep 2011

## RESEARCH EXPERIENCE (Continued)

### University Research Associate - 1

*National Institute of Geological Sciences  
University of the Philippines – Diliman, QC, Manila*

Oct 2007 – Sep 2011

### Research and Development Assistant

*Johnson & Johnson  
Manila, Philippines*

Sep 2006 – Mar 2007

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## TEACHING AND MENTORING EXPERIENCE

### Teaching Assistant

*UNTHSC School of Public Health,  
Fort Worth, TX, USA*

Spring 2022 & Fall 2023

#### *BIOS 5316 – Categorical Data Analysis*

Guest lectured on the topic of Cochran-Armitage Trend Test and motivating examples for logistic regression.

#### *EOHS 5318 – Diseases from Animals to Humans*

Facilitated discussion boards, evaluated and provided written feedback to all assignments, exams, and final papers of students.

### Lecturer (Part-time)

*School of Science and Engineering, Ateneo de Manila University  
Manila, Philippines*

Feb – Jun 2021

#### *Introduction to Environmental Science*

Designed lesson modules on Canvas for asynchronous and synchronous class sessions, with topics including ecology, earth science, atmospheric science, and environmental health.

### Senior High School Teacher (Part-time)

*St. Joseph's Academy  
Manila, Philippines*

Jun 2019 – Dec 2020

#### *Disaster Readiness and Risk Reduction*

Taught the concepts of disaster readiness and risk reduction, including disaster risks, exposure and vulnerability, different natural and anthropogenic hazards, disaster risk reduction and management (DRRM) policies, and the role of society and students in DRRM.

#### *Chemistry*

Taught General Chemistry with topics including matter and its properties; structure of the atom; the periodic table and its trends; gas laws; inter- and intra-molecular bonds; and an introduction to organic chemistry.

## TEACHING AND MENTORING EXPERIENCE (Continued)

### Postgraduate Mentor

*Australian National University  
Canberra, Australia*

Jan – Jun 2017

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## PROFESSIONAL EXPERIENCE

### Project Development Officer IV

*Department of Science and Technology – Central Office  
Manila, Philippines*

Feb – Jun 2021

### Project Officer III

*Department of Science and Technology – Central Office  
Manila, Philippines*

Apr 2018 – Feb 2021

### Technical Writer (Consultant)

*Asia Society for Social Improvement and Sustainable Transformation, Inc.  
Manila, Philippines*

Feb 2018 – Aug 2020

*Senior Writer, Feb 2020 – Aug 2020*

*Lead Writer, Jan 2019 – Jan 2020*

*Copywriter, Oct 2019 – Jan 2020*

*Senior Writer, Feb – Oct 2018*

### Environmental Safeguards Analyst (Consultant)

*Asian Development Bank (Headquarters)  
Manila, Philippines*

Nov 2018 – Mar 2019

### Environmental Scientist II

*AECOM  
Manila, Philippines*

Mar 2012 – Jul 2013

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## PUBLICATIONS AND PRESENTATIONS

### On-going Research

**Mendoza, E.P.,** Nolan, E., & Zhou, Z. (2023) Association between cognitive function and everyday discrimination and the mediating effect of depression among Americans: A HABS-HD Study. *In preparation.*

**Mendoza, E.P.,** Neelamegam, M., Balasundaram, R.B., Zhou, Z., & Northeim, K. (2023) Hotspot interactions of Alzheimer's Disease and Related Dementias, diabetes and poverty in the United States. *In preparation.*

## PUBLICATIONS AND PRESENTATIONS (Continued)

Nolan, E., **Mendoza, E.P.**, & Zhou, Z. (2023) Associations between seizures and the development of Alzheimer's Disease among Americans in the HABS-HD Study. *In preparation.*

Nolan, E., **Mendoza, E.P.**, & Zhou, Z. (2023) A Mendelian Randomization analysis of obesity on the development of Alzheimer's Disease. *In preparation.*

### Publications

Bukhari, M.H., da Silva, P.F., Pilz, J., Istanbuluoglu, E., Gorum, T., Lee, J., Karamehic-Muratovic, A., Urmi, T., Soltani, A., Wilopo, W., Qureshi, J.A., Zekan, S., Koonisetty, K.S., Sheishenaly, U., Khan, L., Espinoza, J., **Mendoza, E.P.**, and Haque, U. 2023. Community perceptions of landslide risk and susceptibility: A multi-country study. *Landslides* (2023) DOI: <https://doi.org/10.1007/s10346-023-02027-5>

Catane, S.G., Abon, C.C., Saturay, R.M., Jr., **Mendoza, E.P.**, Futralan, K.M. 2012. Landslide-amplified flash floods– the June 2008 Panay Island flooding, Philippines. *Geomorphology* 169-170 (2012) 55–63

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. and Pascua C.S. 2009. Mineralogical and geochemical characteristics of Metro Manila volcanic soils and their suitability for landfill liner. *In: Proceedings of the National Conference on Research in Higher Education of the Commission on Higher Education (NHERA-CHED)*, Davao City, Philippines, November 2009

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. and Pascua C.S. 2009. Suitability of volcanic soils and sediments in Metro Manila for landfill liner material, Philippines. *In: Proceedings of the XIV International Clay Conference (XIV ICC)*, Castellaneta Marina, Italy, June 2009

Catane, S.G., Abon, C.C., Saturay, R.M. Jr., Futralan, K.M., **Mendoza, E.P.**, 2009. Landslides as triggers to disastrous floods – The June 2008 Panay island flooding, Philippines. *In: Proceedings of Geohazard and Geo-disaster Mitigation (RC-GeoEnv)*, Kuala Lumpur, Malaysia, March 2009, 187-192.

**Mendoza, E.P.**, Catane, S.G. and Zarco, M.A., 2009. Mineralogical and geochemical characteristics of volcanic soils in Metro Manila, Philippines: influence on geomechanical behavior. *In: Proceedings of the 6<sup>th</sup> Regional Symposium on Infrastructure Development (RSID6)*, Bangkok, Thailand, January 2009, 6 p.

### Published Abstracts

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. 2010. Geological and geotechnical characteristics of Metro Manila volcanic soils and their suitability for soil liner. *In: The Proceedings of the European Geosciences Union General Assembly*, Vienna, Austria. [accessed via [www.adsabs.harvard.edu](http://www.adsabs.harvard.edu)]

Abon, C.C., Saturay, R.M., Jr., Futralan, K.M., **Mendoza, E. P.** and Catane, S.G., 2008. Potential contribution of landslides in the 20-21 June 2008 floods in Panay Island, Philippines. In: *The Proceedings of the GEOCON 2008: Solutions for Changing Times*, Makati City, p. 33.

Catane, S.G., **Mendoza, E.P.**, Zarco, M.H. and Pascua, C.S., 2008. Mineralogy of volcanic soils in Metro Manila, Philippines. In: *The Proceedings of the GEOCON 2008: Solutions for Changing Times*, Makati City, p. 46.

Catane, S.G., Saturay, R., Jr., Abon, C., Futralan, K.M. and **Mendoza, E.P.**, 2008. Potential contribution of Landslides in the 20-21 June 2008 storm-induced floods in Panay Island, Philippines. In: *Proceedings of the 3<sup>rd</sup> Regional Training Course-Asian Program for Regional Capacity Enhancement for Landslide Impact Mitigation*, October 27-31, 2008, Mandaluyong City, Philippines

### **Technical Reports**

Catane, S.G., Zarco, M.A.H., Cabria H. B., Cabria, X. A., Roman, C., Kaimo, R. A. N., Teves, K. J. A., **Mendoza, E.P.**, 2009. *Hazard Assessment and Engineering Mitigation Measures for the Typhoon Dante-Induced Landslides, Bac-Man Geothermal Production Field, Albay*, 33 p.

Catane, S.G., Zarco, M.A.H., Cabria H. B., Teves, K. J. A., **Mendoza, E.P.**, 2009. Initial Investigation of the Manaol Rock Slide, Moises Padilla, Negros Occidental, 7 p.

Catane, S.G., Zarco, M.A.H., Baliatan, E.G., Futralan, K.M., **Mendoza, E.P.**, 2008. *Slope stability analysis and engineering mitigation measures for the Upper Pad H, Bacman Geothermal Production Field, Albay*, 26 p.

### **Other Publications**

Department of Science and Technology Central Office Public Service Continuity Plan, 2021.  
*Served as co-author of a department-wide service continuity plan. Data was gathered from 15 institutes and 16 regional offices of the department.*

UNESCO National Commission of the Philippines Annual Report 2019, Philippines.  
*Commissioned as Senior Writer to develop UNACOM's 2019 annual report.*

Department of Science and Technology Central Office Security Strategy Plan, 2019-2022.  
*Served as main author of a department-wide document that lists strategies to achieve the 12-key agenda of the Philippines's National Security Policy. The strategies were synthesized from various DOST agencies' programs that were identified to be contributing to each key agenda.*

Department of Energy Renewable Energy Decade Report 2019, Philippines.  
*Commissioned as Lead Writer to collect primary data, do extensive research, and write the renewable energy sector accomplishments of the Philippines from 2008 to 2018.*

## PUBLICATIONS AND PRESENTATIONS (Continued)

**Mendoza, E.P.**, Gatumbato, E., Bendsen, N., and Temur, F., 2018. *PAMB Guidebook for the Development of a Protected Area Management Board Manual of Operations*, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Bonn, Germany.

### Oral Presentations

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. “Geological and geotechnical characteristics of Metro Manila volcanic soils and their suitability for soil liner”. European Geosciences Union General Assembly, Vienna, Austria, May 2010.

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. and Pascua C.S “Mineralogical and geochemical characteristics of Metro Manila volcanic soils and their suitability for landfill liner”. National Conference on Research in Higher Education of the Commission on Higher Education (NHERA-CHED), Davao City, Philippines, November 2009.

**Mendoza, E.P.**, Catane, S.G., Zarco, M.A. and Pascua C.S. “Suitability of volcanic soils and sediments in Metro Manila for landfill liner material, Philippines”. XIV International Clay Conference (XIV ICC), Castellaneta Marina, Italy, June 2009.

**Mendoza, E.P.**, Catane, S.G. and Zarco, M.A., “Mineralogical and geochemical characteristics of volcanic soils in Metro Manila, Philippines: influence on geo-mechanical behavior.” 6<sup>th</sup> Regional Symposium on Infrastructure Development (RSID6), Bangkok, Thailand, January 2009.

### Poster Presentations

Rossheim, M.E., McDonald, K.K., LoParco, C.R., Sekhon V., Agwuncha T., Townsend O., **Mendoza E.**, Vasilev, V., Siegel, M., & Jernigan, D.H. Online Retail Assessment of Ready-to-Drink Alcohol Products and Prices: Fort Worth, Texas, 2023. Session: Alcohol Interventions and Policies. Poster presentation by Matthew Rossheim at the 2023 American Public Health Association (APHA) Annual Meeting in Atlanta, GA, November 2023.

Balasundaram, R., **Mendoza, E.**, Norheim, K. “Exploring Socioeconomic Influences on Dental Visit Prevalence in Texas using Geographic Weighted Regression.” Texas Society of Public Health Education Conference, Austin, Texas, October 2023.

**Mendoza, E.P.**, Pourghasemi, H.R., & Haque, U. “Multi-hazard assessment of the Kyrgyz Republic’s Osh Region using Maximum Entropy.” Research Appreciation Day, UNTHSC, Fort Worth, TX, 2023. *Third Place, Research Poster Award.*

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## EXTENSION SERVICES AND EXTRA-CURRICULAR ACTIVITIES

### Extension Services

**CDO-Bukidnon-Iligan Landslide Reconnaissance**

Jan – Feb 2012

*University of the Philippines - Diliman  
Manila, Philippines*

**Guinsaugon Landslide Reconnaissance** Apr 2010  
*University of the Philippines - Diliman  
Manila, Philippines*

**Negros Occidental Landslide Reconnaissance** Aug 2009  
*University of the Philippines - Diliman  
Manila, Philippines*

**Kalibo Flooding and Landslide Reconnaissance** Aug 2008  
*University of the Philippines - Diliman  
Manila, Philippines*

### **Selected Organizing Committee Experiences**

**An STI Framework for Action: Converging towards the  
Development of an ASEAN Platform on Science,  
Technology, and Innovation for Disaster and Climate Resilience** Sep 2019  
*Department of Science and Technology, Manila, Philippines*

**ASEAN at 50** Apr 2017  
*Australian National University  
Canberra, Australia*

**NIGSCON: Philippine Geohazards: A Geological Perspective** Mar 2010  
*University of the Philippines – Diliman  
Manila, Philippines*

**GEOCON/NIGSCON: Solution for Changing Times** Dec 2008  
*University of the Philippines – Diliman  
Manila, Philippines*

**International Conference-Workshop on the 17 February 2006  
Guinsaugon Landslide** May 2008  
*University of the Philippines – Diliman  
Manila, Philippines*

### **Selected Extra-Curricular Activities**

**Convener, Environment and DRRR Community of Practice** Oct 2020 – Oct 2021  
*Australia Alumni Communities Philippines  
Manila, Philippines*

**General Representative, Australia National University  
Postgraduate and Research Students' Association** Sep – Dec 2017  
*Australia National University, Canberra, Australia*



## EXTENSION SERVICES AND EXTRA-CURRICULAR ACTIVITIES (Continued)

<b>Executive Secretary, ANU Filipino Association</b> <i>Australia National University</i> <i>Canberra, Australia</i>	Jan – Dec 2017
<b>Research Coordinator – Welfare Portfolio, Council of International Students of Australia</b> <i>Australia National University</i> <i>Canberra, Australia</i>	Jul 2016 – Jul 2017
<b>Head, Commission on Youth</b> <i>Jesus the Divine Healer Parish</i> <i>Manila, Philippines</i>	Jul 2007 – Jul 2014
<b>President, College Assembly of Science</b> <i>De La Salle University – Manila</i> <i>Manila, Philippines</i>	2005 – 2006
<b>President, Chemistry Society</b> <i>De La Salle University – Manila</i> <i>Manila, Philippines</i>	2004 – 2005

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## SELECTED TRAININGS AND WORKSHOPS ATTENDED

Health Equity Scholars Program Didactic Training Sessions, University of Wisconsin – Madison, USA, Sep to Dec 2023

Public Service Continuity Planning, Manila, Philippines, Nov 2020

Project Management Fundamentals, Manila, Philippines, Oct 2020

Business Impact Analysis, Manila, Philippines, Sep 2020

ISO 31000: Risk Management, Manila, Philippines, Sep 2020

Climate Reality Leadership Corps Training Program, Manila, Philippines, Aug 2020

Training and Workshop on Public Policy Analysis and Development, Manila, Philippines, Nov 2018

National Workshop on Advancing Inclusive and Resilient Urban Development Targeted at the Urban Poor, Manila, Philippines, Sep 2018

Training and Workshop on Coaching and Individual Development Plan, Manila, Philippines, Sep 2018

## **SELECTED TRAININGS AND WORKSHOPS ATTENDED (Continued)**

Harnessing the Fourth Industrial Revolution: Creating our Future Today, Manila, Philippines  
Sep 2018

Gender Sensitivity Training, Manila, Philippines, Aug 2018

Training and Workshop on Monitoring and Evaluation, Manila, Philippines, Jun 2018

Embedding and Ethos of Student Partnership in Australian University Decision Making –  
The Way Forward, Canberra, Australia, Jun 2017

Research for Development Impact Network Conference, Sydney, Australia, Jun 2017

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## **PROFESSIONAL AFFILIATIONS**

Member, International Society to Advance Alzheimer's Research and Treatment  
Member, American Public Health Association

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## **COMMUNITY SERVICE**

Volunteer, Remote Area Medical (RAM), Fort Worth, TX, USA	Dec 2022
Service Associate, American Red Cross, Fort Worth, TX, USA	Feb – Jul 2022
Volunteer Organizer, ANU 3-Minute Thesis, Canberra, Australia	Sep 2017

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## **CERTIFICATIONS AND ELIGIBILITY**

Mental Health First Aider, Australia	Sep 2017 – Sep 2020
Civil Service Eligible, Philippine Civil Service Commission	Aug 2007 – present