

Nathaniel Noya

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Economics graduate with a strong academic background in mathematics and professional experience in research and data analysis. With over three years of leadership experience in promoting economic literacy and pluralist approaches, I excel at bridging complex quantitative concepts with accessible, learner-centered approaches, designing materials that inspire curiosity and critical thinking. My leadership in initiatives has successfully engaged diverse audiences, fostering curiosity and critical thinking. Passionate about empowering students to use mathematics as a tool for real-world problem-solving, I am excited to contribute my expertise to the Department of Mathematics at Visayas State University.

PROFESSIONAL EXPERIENCE

WR Numero Research, Pasig City, Philippines

Research Associate

December 2023 - October 2024

- Delivered 56 hours of live online training to 432 Field Researchers nationwide, on electronic questionnaire content, the KoboCollect app, and sampling protocols for 12 nationwide and local surveys. Questionnaire topics included Filipino political attitudes in a pre-election context, financial needs in the public safety sector, exclusion patterns in the Philippine education system, and attitudes toward the Philippine Party Development Act.
- Led the development and execution of sampling design and sample selection processes for 5 research projects, including 3 nationwide surveys spanning 17 regions, 120 provinces, 270 cities/municipalities, and 819 ultimate sampling units (USUs). Oversaw initial design and fieldwork sampling adjustments, including selection of sample spots and replacements as needed.
- Spearheaded the programming of electronic survey questionnaires for 13 nationwide and local face-to-face surveys using KoboToolbox and XLSForm, deploying over 3,100 survey questions and items.
- Coordinated multi-language translations for five research projects, overseeing and reviewing survey questionnaires totaling almost 25,000 words across Cebuano, Ilocano, Maguindanaon, Maranao, and Tausug. Conducted 8.5 hours of interviews to select qualified translators from a pool of 56 applicants, ensuring accurate, culturally relevant translations for both nationwide and local surveys.
- Contributed to securing a 3,000,000 PHP research project by revising the technical proposal, restructuring the six-month work plan and timeline for key deliverables, and optimizing the budget across major project components.
- Oversaw and mentored five interns across two internship cycles, effectively delegating tasks to enhance their learning and productivity.

WR Numero Research, Pasig City, Philippines

Research Apprentice

October 2023 - December 2023

- Streamlined the inaugural Philippine Public Opinion Monitor by leading the programming of a 250-item electronic survey questionnaire for Computer Assisted Face-to-Face Interviews, reducing the survey process time by at least 50% compared to traditional methods.
- Delivered 8 hours of live online training to 100 Field Researchers nationwide on electronic questionnaire content and the KoboCollect app for the inaugural Philippine Public Opinion Monitor.
- Contributed to the development of the sampling design and implemented the sampling scheme for selecting and replacing sample spots before and during fieldwork across 95 cities/municipalities and 300 barangays.
- Led the translation and review of a 4,974-word survey questionnaire from Tagalog to Cebuano.
- Created 110 data tabulations, conducted field data collection in four barangays in Metro Manila with 14 successful interviews, and led data quality checks for over 400 entries from the Visayas region.

Ambisyon ng mga Kabataang Pilipino: Centering Youth Aspirations in Education

Reform, Metro Manila, Philippines

Research Assistant

October 2023 - August 2024

- Conducted descriptive and correlational analyses with data visualization for the EDCOM II research project on Filipino youth aspirations in education reform, utilizing the 2021 Young Adult Fertility and Sexuality Study (YAFS) to explore factors influencing career, education, and social aspirations through multiple linear and generalized ordinal logistic regression models.
- Served as the primary liaison between Principal Investigator and the Research Consortium, composed of various development/academic organizations.
- Acquired three datasets from nationally representative surveys, including a longitudinal study, and led the cleaning and analysis of the 2021 Young Adult Fertility and Sexuality Study (YAFS) dataset (with sample size of 10,949), interpreting results from descriptive and correlational analyses. Additionally, conducted a literature review on various dimensions of youth aspirations.
- Participated in several workshops and meetings where we learned from education experts and other UPPEJA Fellows, and applied them to our research project.

Visayas State University, Baybay City, Philippines

Science Research Aide

August 2023 - September 2023

- Served as data encoder, created a coding guide, and managed and cleaned data from 112 household questionnaires for the study called Greenhouse Gas Emissions Inventory for Households in Brgy. Cogon, Ormoc City, Leyte.
- Conducted data encoding from 30 household-level questionnaires, descriptive analyses, and literature review for the study called Residue Valorization of Waste Products from Small-scale Vegetable Production in Leyte, Philippines.

EDUCATION

Visayas State University, Baybay City, Philippines

August 2023

Bachelor of Science in Economics, with specialization in Environmental and Development Economics

GWA: 1.454 out of 1.00

Thesis: "Exploring the geography of (dis)advantage: spatial clusters and determinants of village-level poverty in Ormoc City, Leyte, Philippines using geographically weighted regression"

Relevant Coursework: Algebra and Trigonometry, Differential Calculus, Integral Calculus, Mathematical Economics, Mathematics in the Modern World, Mathematical Statistics, Econometrics, Geographic Information System, Analytical and Statistical Packages for Economics, Principles of Computer Programming

University of San Jose - Recoletos, Cebu City, Philippines

2013 - 2016

Bachelor of Science in Civil Engineering (150 units earned)

Relevant Coursework: College Algebra, Plane and Spherical Trigonometry, Advance Algebra, Analytic Geometry, College Physics, Differential Calculus, Integral Calculus, Fundamentals of Programming, Logic, Probability and Statistics, Differential Equations

VOLUNTEER/LEADERSHIP EXPERIENCE

Young Scholars Initiative (an initiative of Institute for New Economic Thinking)

Organizer, East Asia working group

October 2024 - present

- Co-organized a Young Scholars panel at the 62nd Philippine Economic Society Conference, securing \$1,680 funding for three young economist presenters and one senior discussant through the Young Scholars Initiative, Inequality and East Asia working groups.

Ekonsepto (Rethinking Economics Philippines)

Volunteer-Researcher

April 2021 - present

- Co-led a partnership with WR Numero Research's Surveys for Good initiative to incorporate two economic literacy questions into the Philippine Public Opinion Monitor (with sample size of 1,729), a quarterly nationwide survey conducted by the private firm.
- Presented on behalf of Ekonsepto at the 62nd Philippine Economic Society Conference, sharing preliminary findings from a groundbreaking baseline study on economic literacy in the Philippines, based on data from WR Numero's nationally representative survey.
- Co-organized and served as the master of ceremony for a 2-part webinar series called Ekon to the Future: A Look at Diverse Careers for Economics Graduates, the livestream of which garnered a combined Facebook post reach of 4,800.
- Represented the Philippines in the 5-part online regional training series of Rethinking Economics International, gaining expertise in strategic planning, network development, organizing and leadership roles, campaign design, and skills in bid-writing and grant reporting.

RELEVANT CERTIFICATIONS

Storytelling Using Data Development Academy of the Philippines	November 2022
Data-driven Policy Analysis Development Academy of the Philippines	October 2022
Using Spatial Data for Biodiversity United Nations Development Programme	October 2022
Data Management Fundamentals Development Academy of the Philippines	July 2022
The Data Scientist's Toolbox Johns Hopkins University through Coursera	March 2022
Essential Excel Skills for Data Preparation and Analysis Development Academy of the Philippines	September 2022
Applied Analytics in Public Finance and Budgeting Development Academy of the Philippines	November 2022
Livable and Sustainable Cities in e-Governance Development Academy of the Philippines	October 2022
Foundations of Project Management Google through Coursera	February 2023
Data Science Methodology IBM Skills Network	November 2022
Tools for Data Science IBM Skills Network	November 2022
The Shift Needed in Economics to Enable Just Transition to a Right-Sized Economy Ecological Economics for All (EE4ALL)	July 2022
Gender Equity and Social Inclusion in Research Australian Centre for International Agricultural Research	November 2023
Designing a Multidimensional Poverty Index United Nations Development Programme	April 2022
Foundations of Leadership Excellence (FLEX) Organizational Change Consultants International, Inc.	August 2016

AWARDS AND HONORS

Project SPARTA Scholar (Data Analyst pathway) Development Academy of the Philippines	2020-2023
Consistent University Honors Visayas State University	2018-2020
University Scholar Visayas State University	2018-2020
Scholar Tsuneishi Foundation Cebu Inc.	2013-2016
Dean's List University of San Jose - Recoletos	2013-2015

PROFESSIONAL ASSOCIATIONS

Philippine Migration Research Network
Philippine Sociological Society

August 2024 - August 2025
August 2024 - July 2025

EXTRACURRICULAR AWARDS

Philippine Economic Society, Visayas Economics Conference August 2021
Essay Writing Contest, 1st Place and People's Choice Award (College Category - Region 8)
Ramon Aboitiz Foundation Inc., Gabii sa Kabilin's Pasundayag May 2016
Talent Competition (Singing), 1st Place
University of San Jose - Recoletos, SPEECHFEST 2016 February 2016
Oration Competition, 2nd Place

CONFERENCE PRESENTATIONS AND INVITED TALK

"The State of Economic Literacy in the Philippines: Findings from a National Survey," 45th Anniversary Webinar, Department of Economics, Visayas State University, Baybay City, Leyte, Philippines, November 2024

"The State of Economic Literacy in the Philippines: Findings from a National Survey," 62nd Philippine Economic Society Annual Meeting and Conference, Quezon City, Metro Manila, Philippines, November 2024

"Do Filipinos Trust Surveys?," 2024 Philippine Sociological Society International Conference, Butuan City, Agusan del Norte, Philippines, October 2024

TECHNICAL SKILLS

- Data analysis and management: R (3 years), Stata (2 years), SPSS (2 years), Excel (3 years)
- Geospatial analysis: QGIS (2 years), GeoDa (1 year)
- Electronic survey instrument programming: XLSForm (1 year), KoboToolbox (1 year)
- Touch typing (81 words per minute on average)

LANGUAGES

English (Professional), Filipino (Professional), Cebuano (Native)

RESEARCH INTERESTS

Development Economics, Pluralist Economics, Survey Research, Econometrics, Ecological Economics, Sustainability, Research Methodologies