

APRIMELLE KRIS JACILDO PAJIMOLA

University of the Philippines Baguio, Baguio City, Philippines

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PERSONAL INFORMATION

Birthdate: April 14, 1995

Place of Birth: San Fernando City, La Union

Nationality: Filipino

Civil Status: Single

EDUCATIONAL BACKGROUND

- **Master of Science in Mathematics**
University of the Philippines Baguio, 2015–2020
Gov. Pack Road, Baguio City, Philippines
- **Bachelor of Science in Mathematics**
University of the Philippines Baguio, 2011–2015
Gov. Pack Road, Baguio City, Philippines

MASTER'S THESIS DISSERTATION

Title: Mathematical Analysis of the Transmission Dynamics of Japanese Encephalitis

Supervisor: Dr. Joel M. Addawe

RESEARCH INTERESTS

Mathematical Modelling, Mathematical Epidemiology, Dynamical Systems, Data Analysis

WORK EXPERIENCE

Assistant Professor 1	Department of Mathematics and Computer Science University of the Philippines Baguio September 2023 – Present
Senior Lecturer I	Department of Mathematics and Computer Science University of the Philippines Baguio February 2022 – June 2023
Research Assistant	Department of Mathematics and Computer Science University of the Philippines Baguio October 2021 <i>Project Title: Exploratory Data Analysis (EDA) of Baguio City COVID-19 Cases Daily Updates</i> <i>Project Leader: Dr. Rizavel C. Addawe</i>

Instructor V	Department of Mathematics and Computer Science University of the Philippines Baguio February 2021 – July 2021
Research Assistant II	Department of Mathematics and Computer Science University of the Philippines Baguio September 2020 – January 2021 <i>Project Title: Covidization of DMCS Teaching, Research Extension, Public Service and other activities for A.Y. 2020-2021</i> <i>Project Leader: Dr. Rizavel C. Addawe</i>
Research Assistant I	University of the Philippines Office of the Vice President for Academic Affairs – Emerging Interdisciplinary Research (OVPAE- EIDR) Program August 2015 – August 2016 <i>Project Title: Mathematical Analysis of Climate-based Malaria Transmission Model with Age-Structured Human Population</i> <i>Project Leader: Dr. Joel M. Addawe</i>
Private Math Tutor	Home-based and online tutorials to various students September 2016 – Present
Mathematics Mentor	Learning Resource Center University of the Philippines Baguio August 2014 – May 2015

PUBLICATIONS

- Libatique, C. P., **Pajimola, A. K. J.**, & Addawe, J. (2017, November). Bifurcation analysis of dengue transmission model in Baguio City, Philippines. In *AIP Conference Proceedings* (Vol. 1905, No. 1, p. 030023). AIP Publishing.
- Addawe, J., & **Pajimola, A. K.** (2016, October). Dynamics of climate-climate based malaria transmission model with age-structured human population. In *AIP Conference Proceedings* (Vol. 1782, No. 1, p. 040002). AIP Publishing.

RESEARCH DISSEMINATIONS

(Papers in National and International Conferences, Scientific Meetings, and Symposia)

Oral Presentations

- R.C. Addawe, J.P.T. Viernes, C.P. Libatique, S.G.S. Domilies*, J.L.D. Marigmen, **A.K.J. Pajimola**, J.B. Bulauan, J.S. Punzalan, & D.T. Panes, *Describing COVID-19 Deaths, Age, and Vaccination Status in Baguio City*, 10th Regional Health Research Conference: Health Research Responding to Challenges Towards Regional Recovery and Resiliency, Cordillera Health Research and Development Consortium, July 7, 2022.
- R.C. Addawe*, J.P.T. Viernes, C.P. Libatique, S.G.S. Domilies, J.L.D. Marigmen, R.E.N. Gueco, & **A.K.J. Pajimola**, *Exploratory Data Analysis (EDA) of Baguio City COVID-19 Cases Daily Updates*, 4th Colleges and Universities Public Service Conference (CUPSCon 4), Padayon Public Service Office, Office of the Vice President for Public Affairs, University of the Philippines System, October 21–22, 2021.
- C.P. Libatique*, **A.K.J. Pajimola**, & J.M. Addawe, *Bifurcation analysis of dengue transmission model in Baguio City, Philippines*, 13th IMT-GT International Conference on Mathematics,

Statistics, and their Applications (ICMSA 2017), Universiti Utara Malaysia, Kedah, Malaysia, December 4–7, 2017.

- C.P. Libatique*, **A.K.J. Pajimola**, & J.M. Addawe, *Identifying Important Parameters in a Dengue Transmission Model*, 2017 MSP Annual Convention, Legazpi City, May 2017.
- J.M. Addawe* & **A.K.J. Pajimola**, *Dynamics of climate-based malaria transmission model with age-structured human population*, The 4th International Conference on Quantitative Sciences and its Applications (ICOQSIA 2016), Putrajaya, Malaysia, August 16–18, 2016.
- J.M. Addawe*, D. Tubera, & **A.K.J. Pajimola**, *Dynamics of Dengue Transmission Model in Baguio City, Philippines*, Asian Mathematical Conference (AMC 2016), Nusa Dua Convention Center, Bali, Indonesia, July 25–29, 2016.
- J.M. Addawe* & **A.K.J. Pajimola**, *EIDR Project: Mathematical Analysis of Climate-based Malaria Transmission Model with Age-Structured Human Population*, 2015 Office of the Vice President for Academic Affairs (OVPA) Research Symposium, National Institute of Physics, University of the Philippines Diliman, November 12–13, 2015.

Poster Presentations

- J.P.T. Viernes*, R.C. Addawe, C.P. Libatique, S.G.S. Domilies, J.L.D. Marigmen, **A.K.J. Pajimola**, J.S. Punzalan, & D.T. Panes, *Baguio City's COVID-19 Deaths, Age, Vaccination Status and their Association*, The International Conference on Mathematical and Technology 2022 (MathTech 2022), Penang, Malaysia, September 13–15, 2022.
- J.M. Addawe* & **A.K.J. Pajimola***, *Mathematical Analysis of Climate-based Malaria Transmission Model with Age-Structured Human Population*, UP Knowledge Festival: Utak at Puso para sa Bayan, Taal Vista Hotel, Tagaytay City, April 17–19, 2016.

PUBLIC LECTURES / PRESENTATIONS

- **Lecturer**, *On the K-12 Basic Calculus Course: Derivatives and Integration*, 26th Summer Institute in the Natural Science and Mathematics (Theme: Updating Senior High School Science and Mathematics Education: Content and Competency Part 1), College of Science, University of the Philippines Baguio, via Online Conferencing Platforms, May 6-8, 2021.
- **Resource Speaker**, *Mathematical Analysis of the Transmission Dynamics of Japanese Encephalitis*, 6th DMCS Summer School – Workshops on Graduate Research: In Honor of Prof. Macansantos' Retirement, Department of Mathematics and Computer Science, University of the Philippines Baguio, via Zoom Virtual Video Conference, February 1-12, 2021.

RELEVANT EXTENSION SERVICES

Moderator *National Science, Technology, and Innovation Week 2023*
University of the Philippines Baguio, November 23, 2023

Thesis Adviser
Thesis Reader Bachelor's Thesis Examination of BS Math Students
Department of Mathematics and Computer Science
University of the Philippines Baguio
Academic Year 2022-2023

Data Analytics Volunteer Department of Mathematics and Computer Science
University of the Philippines Baguio
May 2021 – July 2023

*Project Title: Exploratory Data Analysis (EDA) of Baguio City
COVID-19 Cases Daily Updates*

Project Leader: Dr. Rizavel C. Addawe

Proctor	<i>24th Philippine Mathematical Olympiad Qualifying Stage via Zoom, February 19, 2022</i> <i>23rd Philippine Mathematical Olympiad Qualifying Stage via Zoom, February 20, 2021</i>
Member of the Organizing Committee	<i>6th DMCS Summer School – Workshops on Graduate Research: In Honor of Prof. Macansantos' Retirement February 1-12, 2021</i>
Documenter	<i>DMCS In-House Training 2021 January 15-16, 2021</i>
Facilitator	<i>DMCS Statistics Research Discussion January 29, 2021</i> <i>DMCS Breakthroughs in Mathematics 2020 November 27, 2020</i> <i>DMCS Research Graduate Colloquium September 18, October 16, November 20, 2020, and January 18, 2021</i> <i>Tagisan sa Sipnayan: Battle of the Math Wizards University of the Philippines Baguio Mathematical Society of the Philippines, November 5, 2016</i>
Support Staff	<i>21st Summer Institute in the Natural Science and Mathematics (SINSM) College of Science University of the Philippines Baguio, April 30–May 2, 2015</i>

WORKSHOPS / SEMINARS / TRAININGS / CONFERENCES ATTENDED

- **2024 International Workshop in Mathematical Biology (IWOMB)**
Paradise Garden Resort Hotel and Convention Center, Boracay Island, January 22-25, 2024
- **Mathematics Webinar Series**
Mathematical Society of the Philippines & UP Baguio, December 16, 2023
- **2023 UP Baguio Faculty Conference**
Hotel Grande, Baguio City, December 4, 2023
- **2023 New Faculty Orientation**
University of the Philippines Baguio, October 23, 2023
- **Technical Vocational Online Training on Data Analytics 101**
BPI Foundation & Bayan Academy, March 27–April 26, 2023
- **Microsoft Excel: Beginners Introduction to Excel**
Innovation Philippines Training and Consultancy, April 1, 2023
- **MS Excel Advanced Formula**
DataSense Analytics, April 29, 2023
- **DMCS Graduate Colloquium 2022**
University of the Philippines Baguio, July 25 & September 19, 2022

- **2022 MSP Annual Convention**
Online Conferencing Platform, May 21, 28, and June 4, 2022
- **Training Workshop on Mathematical Modeling in Python**
University of the Philippines Cebu, April 28-29, 2022
- **27th Summer Institute in the Natural Science and Mathematics (SINSM)**
Online Conferencing Platform, April 6-8, 2022
- **Kanazawa University - UP Baguio Joint Seminar on Mathematics**
Online Conferencing Platform, February 8, 2022
- **4th Colleges and Universities Public Service Conference (CUPScon 4)**
University of the Philippines, October 21-22, 2021
- **Webinar on Longitudinal Data Analysis and Missing Data**
University of the Philippines Cebu, August 18, 2021
- **9th Regional Health Research Conference**
Cordillera Regional Health Research and Development Consortium, July 2, 2021
- **Creating Story Maps with ArcGIS**
Geodata Systems Technologies, Inc., June 14, 2021
- **Introduction to GIS Using ArcGIS**
Geodata Systems Technologies, Inc., May 20-21, 2021
- **Webinar on What do they Mean? Numbers on COVID-19 Vaccines**
University of the Philippines Diliman, May 20, 2021
- **2021 MSP Annual Convention**
Online Conferencing Platform, May 15, 22, and 29, 2021
- **Smarter Philippines through Data Analytics, Research and Development, Training and Adoption (SPARTA) Pathway Completion Launch: The Data Analyst and Pathway and its Courses**
Online Conference Platform, May 5, 2021
- **Science for Business Resilience in Time of Pandemic**
University of the Philippines Baguio, April 21, 2021
- **Online KA-pehan: Continuing Science Education and Research in the Midst of the Pandemic**
University of the Philippines Baguio, April 19-20, 2021
- **UIS Public Service Online Module Orientation and Training**
University of the Philippines, April 12, 2021
- **DMCS Graduate Colloquium 2021**
University of the Philippines Baguio, February 26, March 22, April 19, May 17, & July 23, 2021
- **DMCS Breakthroughs in Mathematics**
University of the Philippines Baguio, February 19, March 19, April 16, 2021
- **Baguio City COVID-19 Updates: A Visual Exploratory Data Analysis (V-EDA)**
University of the Philippines Baguio, December 2, 2020
- **A Crash Course in Data Science**
John Hopkins University, via Coursera, December 1, 2020
- **Shapes in Data: An Invitation to Topological Data Analysis**
University of the Philippines Baguio, November 27, 2020
- **DMCS Breakthroughs in Mathematics 2020**
University of the Philippines Baguio, November 27, 2020
- **One STAT-at-a-time: A Webinar Series on Basic Statistical Tools and Techniques in Research**
University of the Philippines Los Banos, November 25, 2020

- ***Expert Series Webinar: How to Build Productive Research Collaborations and Communities in Southeast Asia?***
Elsevier, November 6, 2020
- ***Applications of Modelling in Epidemiology Webinar***
University of the Philippines Baguio, October 22–23, 2020
- ***DMCS Midyear School V: Graduate Research***
University of the Philippines Baguio, July 17–19, 2019
- ***2019 International Workshop in Mathematical Biology (IWOMB)***
Bohol Bee Farm, Panglao Island, Bohol, January 6–10, 2019
- ***DMCS Summer School IV: Numerical Methods on Differential Equations***
University of the Philippines Baguio, July 24–28, 2018
- ***2018 International Workshop in Mathematical Biology (IWOMB)***
Costabella Tropical Beach Hotel, Mactan Island, Cebu, January 7–10, 2018
- ***13th IMT-GT International Conference on Mathematics, Statistics, and their Applications (ICMSA 2017)***
Universiti Utara Malaysia, Kedah, Malaysia, December 4–7, 2017
- ***UP Knowledge Festival: Utak at Puso para sa Bayan***
Taal Vista Hotel, Tagaytay City, April 17–19, 2016
- ***Orientation-Workshop on Administrative Policies and Procedures (Finance Section)***
University of the Philippines Baguio, March 14, 2016
- ***DMCS Workshop on BS Mathematics and BS Computer Science Program Revision***
Pooten Resort, Asin Road, Tuba, Benguet, February 1, 2016
- ***2015 Office of the Vice President for Academic Affairs (OVPA) Research Symposium***
University of the Philippines Diliman, November 12–13, 2015
- ***Comprehensive MATLAB Training***
University of the Philippines Baguio, September 3–4, 2015

SKILLS

- Excellent in scientific research and research writing
- Excellent written and oral communication skills in Filipino, English, and Ilokano
- Proficient in using Microsoft Office Suite e.g. Microsoft Word, Excel, PowerPoint, etc. and the typesetting program LaTeX
- Has intermediate knowledge in using Mathematics programming languages like Matlab, Maple, Python, C, and R

AFFILIATIONS

- Southeast Asian Mathematical Society (SEAMS), May 2021 – May 2022, June 2023 – May 2028
- Mathematical Society of the Philippines (MSP), May 2021 – May 2022, June 2023 – May 2028
- Philippine Society for Mathematical Biology, January – December 2024
- UP Math-Physics Society
- Christian Brotherhood International

SCHOLARSHIP AND ACHIEVEMENTS

- ***Philippine Civil Service Eligible (Professional Level)***
Rating: 82.39, December 2015
- ***Scholarship Grantee*** of Department of Science and Technology–Science Education Institute (DOST-SEI) Accelerated Science and Technology Human Resource Development Program (ASTHRDP), AY 2016–2018
- ***University of the Philippines 4th Gawad Pangulo: Award for Excellence in Public Service***
(As part of the UP Baguio-CS-DMCS EDA COVID-19 Team)
University of the Philippines, December 2022
- ***Award from the Office of the Baguio City Mayor in appreciation of the sacrifices, hard work, and efforts to quell the surge of COVID-19 Delta Variant in the City***
(As part of the UP Baguio-CS-DMCS EDA COVID-19 Team)
Office of the Baguio City Mayor, December 2022