

ANGELINA AQUINO

CONTACT DETAILS

email angelina.aquino@eee.upd.edu.ph

phone +63 917 591 2858

EDUCATION

- 2022 – Ph.D. (ongoing), *Charles Darwin University*
Topic: Language technologies for Indigenous disaster communication
- 2019 – 2021 M.S. Electrical Engineering, *University of the Philippines Diliman*
Thesis: Universal Dependency Treebanking and Parsing for Tagalog
- 2014 – 2019 B.S. Electronics and Communications Engineering (*cum laude*), *University of the Philippines Diliman*

WORK EXPERIENCE

- 2021 – 2022 Senior Lecturer, *UP Electrical and Electronics Engineering Institute*
- 2019 – 2021 Teaching Associate, *UP Electrical and Electronics Engineering Institute*
Subjects taught:
- EEE 111 Introduction to Programming and Computation
 - EEE 121 Data Structures and Algorithms
 - EEE 147 Signals and Systems
 - CoE 197C Introduction to Audio and Speech Signal Processing

PUBLICATIONS

- 2022 [Benchmarking zero-shot and few-shot approaches for tokenization, tagging, and dependency parsing of Tagalog text](#)
A. Aquino and F. de Leon. Proceedings of the 36th Pacific Asia Conference on Language, Information and Computation (PACLIC 2022), forthcoming
- 2021 [Text-to-Speech Systems for Filipino Using Unit Selection and Deep Learning](#)
E. J. Renovalles, C. R. Lucas, F. de Leon, A. Aquino, and I. Jalandoni. Proceedings of the 24th Conference of the Oriental COCOSDA (O-COCOSDA 2021), online
- 2020 [Parsing in the absence of related languages: Evaluating low-resource dependency parsers on Tagalog](#)
A. Aquino and F. de Leon. Proceedings of the 4th Workshop on Universal Dependencies (UDW 2020), online
- 2019 [SukatWika: An Analysis Software for Linguistic Properties of Texts](#)
K. L. Lucasan, A. Aquino, F. P. Santelices, and D. Ocampo. Proceedings of the International Conference on Language Technologies for All (LT4All): Enabling Linguistic Diversity and Multilingualism Worldwide, Paris, France
- 2019 [G2P and ASR techniques for low-resource phonetic transcription of Tagalog, Cebuano, and Hiligaynon](#)
A. Aquino, J. L. Tsang, C. R. Lucas, and F. de Leon. Proceedings of the 9th International Symposium on Multimedia and Communication Technology (ISMAT), Quezon City, Philippines

PRESENTATIONS

- 2019 Language Technologies at the University of the Philippines Diliman
A. Aquino and R. Cajote. Poster presentation at the International Conference on Language Technologies for All (LT4All), Paris, France

AWARDS AND SCHOLARSHIPS

- 2021 DOST-SEI Foreign Graduate Scholarship in Priority Fields in Science and Technology, *Department of Science and Technology, Philippines*
- 2019 Samsung Research Excellence Award, *Samsung R&D Institute Philippines*
- 2015 DOST-SEI Merit Scholarship, *Department of Science and Technology, Philippines*
- 2014 Oblation Scholarship, *University of the Philippines*

RESEARCH ADVISING

- 2021 – 2022 Scalogram vs Spectrogram as Speech Representation Inputs for Speech Emotion Recognition using CNN
M. D. Enriquez (undergraduate project)
- Voice Conversion of Tagalog Synthesized Speech Using Cycle-GAN
J. Ganhinin and M. D. Varona (undergraduate project)
- An automated recognition system for phonological awareness of kindergarten students in Filipino
J. Maranan (undergraduate project)
- Part-of-Speech Tagging for Pangasinan Language
J. Pinto (undergraduate project)
- 2020 – 2021 Text-to-Speech Systems for Tagalog using Unit Selection and Deep Learning
E. J. Renovalles (undergraduate project)
- 2019 – 2020 Tagalog-Pangasinan Statistical Machine Translator
M. Visperas (undergraduate project)
- Comparative Analysis of MFCC, LFCC, LPCC, and their Fusions as Acoustic Features for Speaker Diarization
M. J. Avila and E. J. Lopez (undergraduate project)
- Speech Denoising in Deep Audio Visual Speech Recognition Systems for Noise-Robust Speech Recognition
J. J. Gopez, M. G. Layug, T. M. Montañez, and A. J. Noroña (undergraduate project)

EXTENSION WORK

- 2021 Consultant, *UP Department of Linguistics & University of Cologne CRC 1252*
Project: “B05 - Prominence related structures in symmetrical voice systems”
- Developed dependency parsing and morphological analysis tools for the Tagalog language towards cross-lingual analysis of morphosyntax in Austronesian languages
- 2020 Consultant, *Center for Educational Measurement, Inc.*
- Developed test items for assessment of quantitative ability in college aptitude tests
- 2019 Consultant, *UP Center for Integrative and Development Studies*
Project: “Mother Tongue-Based Multilingual Education Literacy Test Package”
- Developed tools for phonetic and lexical assessment of K-3 texts in Philippine languages

PERSONAL ENRICHMENT

- 2020 10th Lisbon Machine Learning School (LxMLS), *Instituto Superior Técnico, Portugal*
- Held as a virtual school from July 21st to 29th, 2020
- 2020 Eastern European Machine Learning Summer School (EEML), *Krakow, Poland*
- Held as a virtual school from July 1st to 9th, 2020
 - Best unconference proposal award: “Hate speech detection in under-resourced languages”
(with M. Anand, T. Ficsor, C. Popa, H. Kissane, D. Krzeminski, S. Olewniczak, M. Petrychko, P. Pramanik, S. Ranathunga, and A. Romadhony)

SKILLS AND INTERESTS

- fluent in* Tagalog (mother tongue), English (CEFR C2 proficiency)
- basic understanding of* Bikolano, Japanese, French
- experienced in* Python, MATLAB, C++, C, C# for Unity, Java
- interested in* natural language processing for Philippine and Indigenous languages;
community-driven and open-access technologies

last updated August 3, 2022