

NATHANIEL A. OCO

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PROFESSIONAL PREPARATION

DE LA SALLE UNIVERSITY

Doctor of Philosophy in Philippine Studies – Language, Culture, and Media
(ongoing)

DE LA SALLE UNIVERSITY

Master of Science in Computer Science

DE LA SALLE UNIVERSITY

Bachelor of Science in Computer Science with Specialization in Software
Technology

APPOINTMENTS

June 2014 – Present

FACULTY MEMBER
National University

July 2011 – March 2014

RESEARCH ASSISTANT
De La Salle University

RESEARCH EXPERIENCE

Project Name: Development of a Language Identification System for
Philippine Languages

Date: November 2014 – April 2015

Funding Institution: NU Research and Innovation Office (RaIn),
National University

Project Name: Automatic Collection of Language Resources

Date: November 2014 – April 2015

Funding Institution: NU Research and Innovation Office,
National University

SYNERGISTIC ACTIVITIES

ASIAN ASSOCIATION FOR LEXICOGRAPHY

Member since June 2015

COMPUTING SOCIETY OF THE PHILIPPINES

Member since March 2012

SELECTED PUBLICATIONS

Leif Romeritch Syliongka, **Nathaniel Oco**, Alron Jan Lam, Cheryll Ruth Soriano, Ma. Divina Gracia Roldan, Francisco Magno, and Charibeth Cheng. 2015. Combining Automatic and Manual Approaches: Towards a Framework for Discovering Themes in Disaster-related Tweets. WWW 2015 Companion (Florence Italy, May 18, 2015). Published by ACM, pp. 1239-1244. ACM 978-1-4503-3473-0/15/05. <http://dx.doi.org/10.1145/2740908.2742125>

Rachel Edita Roxas, **Nathaniel Oco**, Charibeth Cheng, Ma Divina Gracia Roldan, Zelinna Pablo. 2015. Paggamit ng Natural Language Processing bilang Gabay sa Pagtuklas at Pagsiyasat ng Tema sa mga Tweet tuwing Halalan/Using Natural Language Processing in the Discovery and Analysis of Themes of Tweets during Elections. Malay 27 (2), pp. 90-101.

Zelinna Cynthia Pablo, Nathaniel Oco, Ma. Divina Gracia Roldan, Charibeth Cheng, Rachel Edita Roxas. 2014. Toward an enriched understanding of factors influencing Filipino behavior during elections through the analysis of Twitter data. Philippine Political Science Journal 35 (2), 203-224.

Nicco Nocon, **Nathaniel Oco**, Joel Ilao, Rachel Edita Roxas. 2014. Philippine Component of the Network-based ASEAN Language Translation Public Service. In Proceedings of the 7th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management (Puerto Princesa City, Philippines. November 12-16, 2014). <http://dx.doi.org/10.1109/HNICEM.2014.7016264>

Nathaniel Oco, Raquel Sison-Buban, Leif Romeritch Syliongka, Rachel Edita Roxas, and Joel Ilao. 2014. Ang Paggamit ng Trigram Ranking Bilang Panukat sa Pagkakahalintulad at Pagkakapangkat ng mga Wika/Trigram Ranking: Metric for Language Similarity and Clustering. Malay 26 (2), pp 53-68.

Nathaniel Oco, Leif Romeritch Syliongka, Joel Ilao, Rachel Edita Roxas. 2013. Dice's Coefficient on Trigram Profiles as Metric for Language Similarity. In Proceedings of the 16th Oriental COCOSDA (Gurgaon, India. November 25-27, 2013). Published by IEEE Xplore. ISBN: 978-147992378-6. <http://dx.doi.org/10.1109/ICSDA.2013.6709892>

Nathaniel Oco, Joel Ilao, Rachel Edita Roxas, Leif Romeritch Syliongka. 2013. Measuring Language Similarity using Trigrams: Limitations of Language Identification. In Proceedings of the 3rd International Conference on Recent Trends in Information Technology (Chennai, India. July 25-27, 2013). Published by IEEE Xplore. <http://dx.doi.org/10.1109/ICRTIT.2013.6844250>

Zelinna Pablo, Sherwin Ona, Rachel Edita Roxas, Charibeth Cheng, Allan Borra, **Nathaniel Oco**. 2013. The Democracy Cube as a Framework for Guiding Participatory Planning for Community-based IT Initiatives. In Proceedings of the 17th Pacific Asia Conference on Information Systems (Jeju, South Korea. June 18-22, 2013).

Nathaniel Oco and Rachel Edita Roxas. 2012. Pattern Matching Refinements to Dictionary-based Code-switching Point Detection. In Proceedings of the 26th Pacific Asia Conference on Language, Information, and Computation (Bali, Indonesia (November 07-10, 2012). Published by the Faculty of Computer Science, Universitas Indonesia, pp 229-236. ISBN: 978-979-1421-17-1.

AWARDS

TOP 10 BIG DATA SOLUTION - PHILIPPINES
2013 Trend Micro Big Data Innovation Programming Contest