

CHRISTIAN MILANTE ALIS, Ph.D.

National Institute of Physics,
University of the Philippines Diliman
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EDUCATIONAL BACKGROUND

- 2009 - 2013 University of the Philippines, Diliman, Quezon City
Ph.D. Physics
Dissertation: *Dynamics of Conversational Utterances*
Research interests: complex systems, data science, large-scale data processing
Adviser: Dr. May T. Lim
- 2007– 2009 University of the Philippines, Diliman, Quezon City
M.S. Physics
Thesis: *Correlation Dynamics of a Social Network and a News Source*
Adviser: Dr. May T. Lim
- 2002 – 2007 University of the Philippines, Diliman, Quezon City
B.S. Applied Physics, **Magna cum laude**
Thesis: *Mobile Distributed System for Telemicroscopy and Spatio-temporal Tracking, Leticia Shahani Award for Best Undergraduate Thesis in Applied Physics*
Adviser: Dr. Carlo Mar Y. Blanca
- 1998 – 2002 Philippine Science High School – Bicol Region Campus, Goa, Camarines Sur
High School, **Salutatorian**

TEACHING AND RESEARCH EXPERIENCE

- 2013 - present Assistant Professor, National Institute of Physics, University of the Philippines
2009 - 2013 Instructor, National Institute of Physics, University of the Philippines
2007 - 2009 Project Research Assistant, National Institute of Physics, University of the Philippines
Instituting the National Telehealth Service Program

SCIENTIFIC PUBLICATIONS

International Refereed Journals

1. **C. M. Alis** and M. T. Lim, "Spatio-temporal Variation of Conversational Utterances on Twitter", *PLOS ONE*, **8**(10):e77793, 2013.
2. **C. M. Alis** and M. T. Lim, "Adaptation of fictional and online conversations to communication media", *European Physical Journal B*, **85**(12), 2012.
3. **C. Alis**, C. del Rosario, Jr., B. Buenaobra, and C.M. Blanca, "Lifeline: 3G-Based Mobile Telemedicine System", *Telemedicine and e-Health*, **15**(3): 241-247, 2009.

Selected Local Proceedings (Total: 15)

1. **C. Alis**, and M.T. Lim, "Short-scale shortening of Twitter utterances", Proceedings of the 31st National Physics Congress of the Samahang Pisika ng Pilipinas (SPP), Cebu City (2013).
2. **C. Alis**, and M.T. Lim, "Data mining social networks: self-selection in a Twitter contest", Proceedings of the 30th National Physics Congress of the Samahang Pisika ng Pilipinas (SPP), Dasmariñas City (2012).
3. **C. Alis**, and M.T. Lim, "Topic popularity in a heterogeneous population of online social network users", Proceedings of the 29th National Physics Congress of the Samahang Pisika ng Pilipinas (SPP), Quezon City (2011).
4. **C. Alis**, and M.T. Lim, "Lengths of utterances in an utterance length-limited medium", Proceedings of the 28th National Physics Congress of the Samahang Pisika ng Pilipinas (SPP), Antipolo City (2010).
5. A. Solatorio, **C. Alis**, and M.T. Lim, "Masking of Actual Communication Pattern by a Queuing Mechanism", Proceedings of the 28th National Physics Congress of the Samahang Pisika ng Pilipinas (SPP), Antipolo City (2010).

INTERNATIONAL CONFERENCES AND WORKSHOPS

Speaker	European Conference on Complex Systems 2013 , Barcelona, Spain, 2013.
Participant	School on Large Scale Problems in Machine Learning and Workshop on Common Concepts in Machine Learning and Statistical Physics , ICTP, Trieste, Italy (Aug. 20-31, 2012)
Speaker	8th International Conference on Complex Systems , Boston, MA, USA, 2011.
Participant	Asia Source 3 , International Institute for Rural Reconstruction, Silang, Cavite, Philippines (Nov. 6-13, 2009)

AWARDS AND SCHOLARSHIPS RECEIVED

2007	Magsaysay Award for Young Engineers/Technologists , National Academy of Science and Technology (NAST)
2007 - 2009	ASTHRDP Scholar , Department of Science and Technology – Science Education Institute
2002 - 2006	University Scholar (9 semesters) , University of the Philippines Diliman
2007	College Scholar , University of the Philippines Diliman
2002 – 2007	RA 7687 Scholarship (DOST Program A Scholarship)

ADMINISTRATIVE POSITIONS HELD

2012 – present	Elementary Physics Laboratory Coordinator, NIP, UP Diliman
2009 – 2012	Systems and Networks Administrator, NIP, UP Diliman
2011	Physics 72 Course Group Leader

ORGANIZATIONS AND AFFILIATIONS

Member, Instrumentation Physics Laboratory, National Institute of Physics, UP Diliman
Member, Samahang Pisika ng Pilipinas (Physics Society of the Philippines)

SPECIAL SKILLS

- Competence in working with big data including data collection via APIs and HTML parsing
- Experienced with cloud and parallel computing
- Proficient in Python, C/C++, web programming languages (XHTML, CSS, etc.)
- Design, deployment and administration of computer networks and systems
- Development of web applications using django
- Website design, authoring and maintenance