

## Richard Bryann L. Chua

Assistant Professor

Department of Physical Sciences and Mathematics

College of Arts and Sciences

University of the Philippines Manila

Rm. 102, Rizal Hall, UP Manila

Padre Faura St., Ermita, Manila

Philippines 1000

Telefax: (632) 2541881

Trunkline: (632) 5163228, 5254980 loc. 118

[rlchua@up.edu.ph](mailto:rlchua@up.edu.ph), [rbchua@upm.edu.ph](mailto:rbchua@upm.edu.ph)

### EDUCATION

Ph.D., *ongoing*, Computer Science, University of the Philippines Diliman

M.Sc., 2008, Computer Science (Computer Systems), University of the Philippines Diliman

B.Sc., 2002, Computer Science (*Cum Laude*), University of the Philippines Manila

### PROFESSIONAL EXPERIENCE

Assistant Professor 5	Department of Physical Sciences and Mathematics College of Arts and Sciences University of the Philippines Manila	January 2014 – present
Assistant Professor 2	Department of Physical Sciences and Mathematics College of Arts and Sciences University of the Philippines Manila	April 2009 – December 2013
Assistant Professor 1	Department of Physical Sciences and Mathematics College of Arts and Sciences University of the Philippines Manila	April 2008 – March 2009
Instructor 4	Department of Physical Sciences and Mathematics College of Arts and Sciences University of the Philippines Manila	June 2005 – March 2008
Instructor 2	Department of Physical Sciences and Mathematics College of Arts and Sciences University of the Philippines Manila	June 2002 – May 2005
<b>Affiliation</b> Lecturer	UP Information Technology Development Center	January 2008 – present

### PROFESSIONAL ACTIVITIES

#### Awards

- International Publication Award, Office of the Vice President for Academic Affairs, University of the Philippines, 2012.

## **Research Projects**

- PhilSHIFT (Study of the Filipino Circadian Clock and Shift Work) Research Program  
Projects funded by UPCIDS and PCHRD-DOST  
With Gayline Manalang (UPM), Mark Anthony Sandoval (UPM), Eduardo Mendoza (MPI, Munich), Till Roenneberg (LMU, Munich), Céline Vetter (LMU, Munich), Jingky Lozano- Kühne (FIH, Munich)  
July 2010 - present
- Multimodal Network Database and Analysis System for Data Acquisition and Systems Biology  
Funded by PCASTRD-DOST  
With Allan Sioson (AdNU), Rey Herman Vidallo (AdNU), Joshua Martinez (AdNU)  
November 2009 – April 2012

## **Reviewing and Refereeing Activities**

- Subreviewer, 5<sup>th</sup> Workshop on Computation: Theory and Practice (WCTP 2015), Cebu, Philippines
- Subreviewer, 4<sup>th</sup> Workshop on Computation: Theory and Practice (WCTP 2014), Manila, Philippines

## **Memberships in Professional Organizations**

- Member, Association for Computing Machinery (ACM)
- Member, Computer Science Teachers Association
- Member, Computing Society of the Philippines
- Member, Network for Integrative Multi-disciplinary Bioinformatics Utilization Strategies

## **Consultancies**

- Consultant, National Telehealth Center, National Institutes of Health, UP Manila  
Project Title: rCHITS 3  
Sponsor: National Telehealth Center, NIH, UP Manila  
June 2015 – present
- Consultant, National Telehealth Center, National Institutes of Health, UP Manila  
Project Title: Review of the Evaluation Audit Report of the National Telehealth Service Program and 2014 – 2016 NThC Information System Strategic Plan  
Sponsor: National Telehealth Center, NIH, UP Manila  
September – October 2014
- Senior Analyst, Department of Education  
Project Title: DepEd Unified Information System Plan  
Sponsor: Australian Agency for International Development  
November 2011 – August 2012
- Consultant, Fujitsu Ten Solutions Philippines  
Project Title: C# .NET and WPF Migration and Optimization of CATT Chart Module  
Sponsor: Fujitsu Ten Solutions Philippines  
1 February – 30 April 2012
- IT Consultant, Department of Clinical Epidemiology, College of Medicine, UP Manila  
June 2009 – September 2011

## **Lectures/Trainings Conducted**

- Using Moodle as Learning Management System to Facilitate Delivery of Learning Materials  
Chiang Kai Shek College, Manila

27 June 2012

Sponsored by Faculty of Business, Arts, and Sciences, Chiang Kai Shek College

- Teacher Training on Cybersecurity  
Rizal Technological University, Mandaluyong City  
18 – 20 October 2010  
Sponsored by Hans Seidel Foundation, European IT Service Center, Rizal Technological University
- Teacher Training on Cybersecurity  
University of Makati, Makati City  
13 – 15 October 2010  
Sponsored by Hans Seidel Foundation, European IT Service Center, University of Makati

## RESEARCH

### Research Interests

- Design and Analysis of Algorithms
- Computer Security
- Computer Networks

### Publications

1. Gabud RS, Manalang G Jr, **Chua RBL**, Mendoza ER, and Lozano-Kühne JP. "An Assessment of Chronotype and Social Jetlag Among Filipinos", *International Journal of Philippine Science and Technology*, vol. 8, no. 1, pp 31-40, 2015.
2. Malinao JA, Tiu K, Lozano LM, Pascua S, **Chua RBL**, Magboo MSA, and Caro JDL. "A Metric for User Requirements Traceability in Sequence, Class Diagrams and Lines-of-Code via Robustness Diagrams", in *Theory and Practice of Computation*, vol. 7, Nishizaki S, Numao M, Caro JDL, and Suarez MT, Eds, Springer Japan, 2013, pp. 50-63.
3. Lozano- Kühne JP, Aguila MER, Manalang GF, **Chua RBL**, Gabud RS, and Mendoza ER. "Shift Work Research in the Philippines: Current State and Future Directions", *Philippine Science Letters*, vol. 5, no. 3, pp. 17-29, 2012.
4. **Chua RBL** and Caro JDL. "Competitive Online Scheduling with Fixed Number of Queues", *Philippine Computing Journal*, vol. 3, no. 1, pp. 18-25, 2008.
5. **Chua RBL** and Caro JDL. "Competitive Online Scheduling with Fixed Number of Queues", *Proceedings of the 8<sup>th</sup> Philippine Computing Science Congress*, Computing Society of the Philippines, pp. 161-168, 2008.
6. **Chua RBL** and Florentino PR, "Online Medical Training System for Simulated Cataract Surgery", *Transactions of the National Academy of Science and Technology Philippines*, vol. 28, no. 1, National Academy of Science and Technology, pp. 161, 2006.
7. **Chua RBL**, Magboo MSA, and Quiming NS, "OrganicBuilder: A Java Program That Displays the 3-D Molecular Structure of an Organic Compound Given its IUPAC Name", *Transactions of the National Academy of Science and Technology*, 2004.

### Conference Presentations

1. 4<sup>th</sup> Workshop on Computation: Theory and Practice 2015 (WCTP 2015), 22 – 23 Sep., 2015.  
University of the Philippines Cebu  
Oral Presenter: "Securing Health Information System with CryptDB"

Authors: Lopez NADC, **Chua RBL**

2. 2<sup>nd</sup> Workshop on Computation: Theory and Practice 2012 (WCTP 2012), 27 – 28 Sep. 2012. De La Salle University, Manila, Philippines.  
Oral Presenter: “A Metric for User Requirements Traceability in Sequence, Class Diagrams and Lines-of-Code via Robustness Diagrams  
Authors: Malinao JA, Lozano LM, Pascua S, **Chua RBL**, Magboo MS, Caro JDL
3. 8<sup>th</sup> Philippine Computing Science Congress, 23 – 24 Feb. 2008, UP Diliman, Quezon City, Philippines  
Oral Presenter: “Competitive Online Scheduling with Fixed Number of Queues”  
Authors: **Chua RBL**, Caro JDL