

# CHAIYONG RAGKHITWETSAGUL

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## PERSONAL PROFILE

I am currently a 3rd-year PhD student in the Centre for Research on Evolution, Search and Testing (CREST), Department of Computer Science, University College London. I am also an assistant instructor at the Faculty of ICT, Mahidol University who is the main sponsor for my PhD study.

## CURRENT PROJECTS

ISiCS: Internet-scaled similar code search  
Cloverflow: Study of outdated code and license violation of online clones between Stack Overflow and open source projects  
A comparison of code similarity analysers  
Optimising configurations of code clone detection tools

## PUBLICATIONS

C. Ragkhitwetsagul, J. Krinke, D. Clark (2017). A Comparison of Code Similarity Analysers. Research Notes No. RN/17/04, 2017. University College London, UK

C. Ragkhitwetsagul, J. Krinke (2017). Using Compilation/Decompilation to Enhance Clone Detection. In 11th International Workshop on Software Clones, 2017. Klagenfurt, Austria, To Appear – The People’s Choice Award

C. Ragkhitwetsagul, M. Paixao, M. Adham, S. Busari, J. Krinke, and J. H. Drake (2016). *Searching for Configurations in Clone Evaluation: A Replication Study*. In 8th International Symposium on Search-based Software Engineering (SSBSE): Challenge Track, 2016. Raleigh, NC, USA. (NSF Student Travel Support)

C. Ragkhitwetsagul, J. Krinke, D. Clark (2016). *Similarity of Source Code in the Presence of Pervasive Modifications*. In 16th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM), 2016. Raleigh, NC, USA.

C. Ragkhitwetsagul (2016). *Measuring Code Similarity in Large-scaled Code Corpora*. In 32nd International Conference on Software Maintenance and Evolution (ICSME): Doctoral Symposium, 2016. Raleigh, NC, USA.

P. Janviriya, T. Ongarjithichai, P. Numruktrakul, C. Ragkhitwetsagul. (2014). *Cloudy-Days : Cloud Storage Integration System*. In ICT-ISPC 2014 (pp. 125-128). Nakhonpathom, Thailand.

P. Hathaiwichian, L. Siri Wittayacharoen, A. Wongwachirawanich, C. Ragkhitwetsagul (2014). *Android Application for Event Management and Information Propagation*. In ICT-ISPC 2014 (pp. 139-142). Nakhonpathom, Thailand.

## EDUCATION

**2014 – Present, PhD**  
**PhD in Computer Science**  
University College London, UK  
Research topic: Code similarity and its applications to Internet-scaled code cloning  
Supervisors: Dr. Jens Krinke, Dr. David Clark  
Research interest: code clone/plagiarism detection, code similarity, mining of software repositories, search-based software engineering

**2007 – 2008, Master****Master of Science in IT – Very Large Information Systems**

Carnegie Mellon University, USA

Capstone project: Honeydew – Meeting date prediction using machine learning

**2002 – 2005, Undergraduate****Bachelor Degree in Computer Engineering (Magna cum Laude)**

Kasetsart University, Thailand

**AWARDS**

The People's Choice Award <i>Using Compilation/Decompilation to Enhance Clone Detection</i> <i>IWSC 2017. Klagenfurt, Austria.</i>	2017
NSF Student Travel Support (700 USD) <i>SSBSE 2016. Raleigh, NC, USA.</i>	2016
Microsoft Azure Research Award (20,000 USD) <i>ISiCS: Internet-scaled Similar Code Search project</i>	2016
Full PhD scholarship <i>Mahidol University Academic Development Scholarship</i> <i>&amp; Faculty of ICT, Mahidol University Scholarship</i>	2014 -2018
Best Project Award: 15-637 Web App Development, Carnegie Mellon University <i>WhimsyWord: multi-player online hangman game</i>	2008
Full Master degree scholarship <i>The Royal Thai Government scholarship</i>	2007 - 2008
Winner of the 8th National Software Contest of Thailand (NSC) Category – Software for Entertainment <i>Sword Edge: virtual reality fighting game</i>	2006
DTAC & NOKIA i-Awards mobile app contest: finalists <i>Interactive e-cards mobile application</i>	2005

**EXPERIENCE**

<i>Research Student</i> <b>Centre for Research on Evolution, Search and Testing (CREST),</b> <b>Software Systems Engineering (SSE) group,</b> <b>Department of Computer Science, University College London</b> Conducting research in code similarity, code reuse, code clone/plagiarism detection, and search-based software engineering	Sep 2014 – Present
<i>Assistant Instructor</i> <b>Faculty of ICT, Mahidol University, Nakhonpathom, Thailand</b> Lectured Fundamentals of Programming, OOP, DBMS, Knowledge-based Systems, and Mobile App Development. Advised three undergraduate student projects.	Dec 2012 – Sep 2014
<i>Consultant</i> <b>Blaccess Thailand</b> Made key decisions and providing company's vision. Planned and managed IT projects and staffs.	Nov 2011 - Sep 2014
<i>System Analyst</i> <b>National Economic and Social Development Board, Thailand</b> Planned, migrated, and developed NESDB IT services (email systems, web applica-	Jan 2009 - Nov 2012

tions, DBMS, and computer networks).

Administered the NESDB applications and computer networks.

*Teacher*

Feb 2010 - Dec 2012

**ProGaming, Thailand**

Instructed Pro Android course on how to develop Android applications.

Instructed Pro iOS course on how to develop iOS applications.

*Developer*

Jan 2009 - Dec 2012

**Kasetsart University, Thailand**

Developed a digital repository, and training/project tracking system for Puparn Royal Development Study Center.

*Intern*

Mar 2008 - Aug 2008

**Oracle, USA**

Developed of a new version of Oracle's internal testing platform, Distributed Testing System (DTS) 2.0, using Java web technology and Javascript.

*Software Test Engineer*

Feb 2006 - Apr 2007

**Microsoft, Thailand**

Created automated test tools for testing localized versions of Windows Vista User Assistance Platform.

Tested user assistance (UA) contents in XML format.

**SKILLS**

**Platforms:** macOS, Linux, Windows, Raspberry Pi, iOS, Android

**Programming languages:** Shell scripts, Java, C/C++, Obj-C, SQL, .Net, HTML, PHP

**PROFESSIONAL  
ACTIVITIES**

Subreviewer: REVE'17

Jun 2017

Reviewer: STVR

Apr 2017

Subreviewer: ICSME'17

Apr 2017

Subreviewer: MSR'17

Feb 2017

Subreviewer: IWSC'17

Dec 2016

Subreviewer: SANER'17

Oct 2016

Subreviewer: SCAM'16

Jul 2016

Reviewer: PeerJ Computer Science journal

May 2016

Subreviewer: SCAM'15

Jul 2015

**REFERENCES**

References upon request.