

# CHAIYONG RAGKHITWETSAGUL

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## PERSONAL PROFILE

I am currently a graduating 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.

## PUBLICATIONS

C. Ragkhitwetsagul, J. Krinke, M. Paixao, G. Bianco, R. Oliveto, Toxic Code Snippets on Stack Overflow, arXiv:1806.07659, 2018.

J. Wilkie , Z. Al Halabi , A. Karaoglu , J. Liao , G. Ndungu, C. Ragkhitwetsagul, M. Paixao , J. Krinke (2018). Who's this? Developer identification using IDE event data. In the 15th International Conference on Mining Software Repositories – Mining Challenge (MSR 2018), 2018. Gothenburg, Sweden

C. Ragkhitwetsagul, J. Krinke (2018). A picture is worth a thousand words: code clone detection based on image similarity. In the 12th International Workshop on Software Clones (IWSC 2018), 2018. Campobasso, Italy – The People's Choice Award

C. Ragkhitwetsagul, J. Krinke, R. Oliveto (2017). Awareness and Experience of Developers to Outdated and License-Violating Code on Stack Overflow: An Online Survey. UCL Computer Science Research Note (RN/17/10), 2017.

C. Ragkhitwetsagul, J. Krinke, D. Clark (2017). A Comparison of Code Similarity Analysers. Empirical Software Engineering, <https://doi.org/10.1007/s10664-017-9564-7>, 2017.

M. Paixao, J. Krinke, D. Han, C. Ragkhitwetsagul and M. Harman (2017). Are Developers Aware of the Architectural Impact of Their Changes?. In the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017), 2017. Illinois, USA

C. Ragkhitwetsagul, J. Krinke (2017). Using Compilation/Decompilation to Enhance Clone Detection. In 11th International Workshop on Software Clones, 2017. Klagenfurt, Austria – 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. Janviriyaya, 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. Siriwittayacharoen, 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: Online 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

Amazon AWS Credits for Research (20000 USD) 2018  
*Code Clone Search as a Web Service*

The People's Choice Award 2018  
*A picture is worth a thousand words: code clone detection based on image similarity IWSC 2018. Campobasso, Italy.*

The People's Choice Award 2017  
*Using Compilation/Decompilation to Enhance Clone Detection IWSC 2017. Klagenfurt, Austria.*

NSF Student Travel Support (700 USD) 2016  
*SSBSE 2016. Raleigh, NC, USA.*

Microsoft Azure Research Award (20,000 USD) 2016  
*ISiCS: Internet-scaled Similar Code Search project*

Full PhD scholarship 2014 -2018  
*Mahidol University Academic Development Scholarship  
& Faculty of ICT, Mahidol University Scholarship*

Best Project Award: 15-637 Web App Development, 2008  
Carnegie Mellon University  
*WhimsyWord: multi-player online hangman game*

Full Master degree scholarship 2007 - 2008  
*The Royal Thai Government scholarship*

Winner of the 8th National Software Contest of Thailand (NSC) 2006  
Category – Software for Entertainment  
*Sword Edge: virtual reality fighting game*

DTAC & NOKIA i-Awards mobile app contest: finalists 2005  
*Interactive e-cards mobile application*

<b>EXPERIENCE</b>	<i>Research Student</i> Sep 2014 – Present <b>Centre for Research on Evolution, Search and Testing (CREST),  Software Systems Engineering (SSE) group,  Department of Computer Science, University College London</b> Conducting research in code similarity, code reuse, code clone/plagiarism detection, and search-based software engineering
	<i>Assistant Instructor</i> Dec 2012 – Sep 2014 <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.
	<i>Consultant</i> Nov 2011 - Sep 2014 <b>Blaccess Thailand</b> Made key decisions and providing company's vision. Planned and managed IT projects and staffs.
	<i>System Analyst</i> Jan 2009 - Nov 2012 <b>National Economic and Social Development Board, Thailand</b> Planned, maintained, and developed NESDB IT services (e.g. email systems, web applications, DBMS). Administrated NESDB applications and computer networks.
	<i>Teacher</i> Feb 2010 - Dec 2012 <b>ProGaming, Thailand</b> Instructed Pro Android course on developing Android applications. Instructed Pro iOS course on developing iOS applications.
	<i>Developer</i> Jan 2009 - Dec 2012 <b>Kasetsart University, Thailand</b> Developed a digital repository, and training/project tracking system for Puparn Royal Development Study Center.
	<i>Intern</i> Mar 2008 - Aug 2008 <b>Oracle, USA</b> Developed of a new version of Oracle's internal testing platform, Distributed Testing System (DTS) 2.0, using Java web technology and Javascript.
	<i>Software Test Engineer</i> Feb 2006 - Apr 2007 <b>Microsoft, Thailand</b> Created automated test tools for testing localized versions of Windows Vista User Assistance Platform. Tested user assistance (UA) contents in XML format.
	<b>SKILLS</b> <b>Platforms:</b> macOS, Linux, Windows, Raspberry Pi, iOS, Android <b>Programming languages:</b> Python, Shell scripts, Java, C/C++, Obj-C, SQL
<b>PROFESSIONAL ACTIVITIES</b>	Publicity Chair: IWSC 2018 Mar 2018 Reviewer: JSS (Nov 2017), IET (Oct 2017), STVR (Apr 2017), PeerJ Computer Sci- ence (May 2016) Subreviewer: MSR '18, REVE'17, ICSME'17, MSR'17, IWSC'17, SANER'17, SCAM'16, SCAM'15
<b>REFERENCES</b>	References upon request.