

# CHAIYONG RAGKHITWETSAGUL

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## PERSONAL PROFILE

I am a lecturer at the Faculty of Information and Communication Technology, Mahidol University in Thailand. I was a PhD student under the supervision of Dr. Jens Krinke and Dr. David Clark in the Centre for Research on Evolution, Search and Testing (CREST), Department of Computer Science, University College London, and successfully defended my thesis on 30 August 2018.

- 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. Paixo , 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 *Awareness and Experience of Developers to Outdated and License-Violating Code on Stack Overflow: An Online Survey*.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. 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 – 2018, PhD

#### PhD in Computer Science

University College London, UK

Research topic: Code similarity and clone search in large-scale source code data

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 (20,000 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 – Sep 2018
	<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>Research Intern</i>	May 2017 – Jul 2018
	<b>Prodo.ai, London</b> Conducting research in deep learning for code clone detection	
	<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

**REFERENCES**    References upon request.