Chaiyong Ragkhitwetsagul

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Research Interests

Software Engineering, Static Software Analysis, Code Similarity and Clone Detection, Mining Software Repositories, Software Dependency and Vulnerabilities, Code Proficiency

Professional Experience

Assistant Professor, May 2022 – Present
Lecturer, December 2012 – April 2022
Assistant Dean of the Academic Administration, October 2018 – October 2020
Faculty of Information and Communication Technology
Mahidol University, Thailand

Podcaster, August 2021 – Present
SE Corner, Thailand
https://creators.spotify.com/pod/profile/se-corner

System Analyst, 2009 – 2012
Office of the National Economic and Social Development Council, Thailand

Software Test Engineer, 2006 – 2007
Microsoft (Thailand), Thailand

Education

Doctor of Philosophy (Computer Science – Software Engineering)
Department of Computer Science, Faculty of Engineering Sciences
University College London, London, UK, October 2018

Master of Science in IT – Very Large Information Systems
School of Computer Science
Carnegie Mellon University, Pittsburgh, USA, December 2008

Bachelor of Computer Engineering
Department of Computer Engineering (Magna cum Laude)
Faculty of Engineering
Kasetsart University, Bangkok, Thailand, March 2006

Selected Honors

- Distinguished Reviewer Awards 2023, the 31st IEEE/ACM International Conference on Program Comprehension (ICPC '23)

- Best Reviewer Awards 2022, Journal of Systems and Software.

- Best Paper Award, 29th Asia-Pacific Software Engineering Conference (APSEC '22) Software Engineering Education Track, Virtual Event, 2022.

- Best Paper Award and the People's Choice Award (best presentation), 16th International Workshop on Software Clones, Limassol, Cyprus, 2022.

- Recipient of the Scholarships for Ph.D. Students 2022 from Mahidol University, 24 March 2022.

- Recipient of the Research Grant for New Scholars (RGNS) for 2 years from the Ministry of Higher Education Science Research and Innovation (MHESRI) on the topic of "Code similarity applications for improving software quality.", 9 November 2021.

- Honorable mention for the Learning Innovation for Online Courses Awards in the category "Online Engagement and Motivation Techniques, Innovations and Learning Models" for Using Virtual Reality for Project Presentation (ITCS431 Software Design and Development), 3 July 2021.

- PhD Thesis Awards, National Research Awards 2020, National Research Council of Thailand, 16 November 2020.

- The Best Tool Demo Award, 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020) - Tool Demo, Adelaide, Australia (Virtual Event), 2020.

- The People's Choice Award (best presentation), 12th International Workshop on Software Clones, Campobasso, Italy, 2018.

- The People's Choice Award (best presentation), 11th International Workshop on Software Clones, Klagenfurt, Austria, 2017.

- Full PhD scholarship, Mahidol University, 2014.

- Full Master's degree scholarship, The Royal Thai Government, 2007.

- Winner of the 8th National Software Contest of Thailand (NSC) – Software for Entertainment, 2006.

Program and Curriculum Development

- Bachelor of Science in Digital Science and Technology (DST), Faculty of Information and Communication Technology, Mahidol University.

Teaching at Mahidol University

- ITCS371 Introduction to Software Engineering (English)   2019 - 2023
- ITDS261 Introduction to Software Engineering (Thai)   2022 - 2024
- ITDS262 Software Engineering Lab (Thai)   2022 - 2024
- ITCS431 Software Design and Development (English)   2019 - 2024
- ITDS361 Software Design and Development (Thai)   2023 - 2024
- ITCS473 Software Quality Assurance and Testing (English)   2019 - 2024
- ITDS362 Software Quality Assurance and Testing (Thai)   2023 – 2024
- ITCS224 Fundamentals of IS and SW Development (English)   2024
- ITCY553 Secure Software Design (English)   2022
- ITCS335 Introductions to e-Business Systems (English)   2020 – 2023
- ITCS126 Introduction to Entrepreneurship (English)   2024
- ITCS126 Introduction to Entrepreneurship (English)   2024
- ITDS101 Industry Experiences and Problems I (Thai)   2022 - 2024

- ITDS201 Industry Experiences and Problems II (Thai)   2022
- ITCS155 Computer Applications (Thai)   2019 – 2020

Student Evaluation Scores (2019 - 2024)

Subject	Subject	2019	2020	2021	2022	2023	2024
ITCS371	Introduction to Software Engineering (EN)	4.69	4.72	4.6	4.67	4.67	N/A
ITDS261	Introduction to Software Engineering (TH)	N/A	N/A	N/A	4.59	4.52	4.58
ITDS262	Software Engineering Lab (TH)	N/A	N/A	N/A	4.59	4.5	4.59
ITCS473	Software Quality Assurance and Testing (EN)	4.8	4.81	4.61	4.79	4.86	4.81
ITDS362	Software Quality Assurance and Testing (TH)	N/A	N/A	N/A	N/A	4.71	4.6
ITCS431	Software Design and Development (EN)	4.64	4.61	4.68	4.64	4.65	4.6
ITCS361	Software Design and Development (TH)	N/A	N/A	N/A	N/A	4.53	4.57
ITCS224	Fundamentals of Information Systems and Software Development (EN)	N/A	N/A	N/A	N/A	N/A	4.44
ITCS491	Senior Project I (EN)	4.93	4.54	N/A	5	5	N/A
ITCS492	Senior Project II (EN)	5	4.45	5	5	5	4.81
ITCS155	Computer Applications (TH)	4.63	4.63	N/A	N/A	N/A	N/A
ITCS335	Introduction to E-business Systems (EN)	N/A	4.05	4.4	4.51	4.59	N/A
ITDS101	Industry Problems and Experiences I (TH)	N/A	N/A	N/A	4.27	4.46	4.8
ITDS201	Industry Problems and Experiences II (TH)	N/A	N/A	N/A	4.24	N/A	N/A
ITCS126	Introduction to Entrepreneurship (EN)	N/A	N/A	N/A	N/A	N/A	4.42

Funded Research Grants

- Mahidol's Scholarship for Ph.D. Student 2025.

- MAINTAIN - Intelligent Maintenance of Software Systems, CNPq/MCTI No 10/2023 - Universal 2023, Researcher (lead by Dr. Matheus Paixao, UECE, Brazil)

- Mahidol's Scholarship for Ph.D. Student 2022.

- Research Grant for New Scholars (RGNS) from Ministry of Higher Education Science Research and Innovation (MHESRI) on the topic of "Code similarity applications for improving software quality", 2021-2023.

- Mahidol University Mini - Research Cluster (MU - MiniRC) on the topic of "Applying Software Engineering for Improving the Development of Data Science Application", 2021-2022 (lead by Dr. Apirak Hoonlor).

- Automated Software Engineering for Thailand Software Industry, Royal Academy of Engineering, UK and Thailand Science Research and Innovation (TSRI) (13,345 GBP), 2019 – 2021.

- UIC grant, University of Wollongong, 2019 - 2020.

- Amazon AWS Credits for Research (20,000 USD), 2018.

- NSF Student Travel Support (700 USD), the 8th Symposium on Search-Based Software Engineering, 2016.

- Microsoft Azure Research Award (20,000 USD), 2016.

Publication Statistics

Monographs: 0
Journal Articles: 9
Conference Papers: 25
Book Chapters: 1
Workshop Papers: 6
Edited Volumes: 0
Citations (14 May 2025):

    Google Scholar: 1025 with h-index of 16
    Scopus: 569 with h-index of 13

Selected Publications (Full publication list: https://cragkhit.github.io/research.html)

Book Chapters

- Krinke, J., & Ragkhitwetsagul, C., *Code Similarity in Clone Detection (Book Chapter).* In K. Inoue & C. K. Roy (Editors), Code Clone Analysis (pp. 135–160), Springer, 2021

Journals

1. M. Choetkiertikul, P. Banyongrakkul, C. Ragkhitwetsagul, S. Tuarob, H. K. Dam and T. Sunetnanta, *Sprint2Vec: A Deep Characterization of Sprints in Iterative Software Development,* in IEEE Transactions on Software Engineering, vol. 51, no. 1, pp. 220-242, January 2025

2. Ragkhitwetsagul C., Krinke J., Choetkiertikul M., Sunetnanta T., Sarro F., *Adoption of Automated Software Engineering Tools and Techniques in Thailand*, Empirical Software Engineering, 2024

3. Choetkiertikul M., Puengmongkolchaikit A., Chandra P., Ragkitwetsakul C., Maipradit R., Hata H., Sunetnanta T., Matsumoto K., *Studying the association between Gitcoin's issues and resolving outcomes*, Journal of Systems and Software, 2023.

4. Sangaroonsilp, P., Dam, H. K., Choetkiertikul, M., Ragkhitwetsagul, C., & Ghose, A. (2023). *A taxonomy for mining and classifying privacy requirements in issue reports*. Information and Software Technology.

5. Choetkiertikul, H. K. Dam, T. Tran, T. Pham, C. Ragkhitwetsagul, A. Ghose. *Automatically recommending components for issue reports using deep learning.* Empirical Software Engineering (EMSE), (2021) 26:14.

6. M. Paixao, J. Krinke, D. Han, C. Ragkhitwetsagul, M. Harman. *The Impact of Code Review on Architectural Changes.* Transactions on Software Engineering (TSE), 2019.

7. C. Ragkhitwetsagul, J. Krinke. Siamese: Scalable and Incremental Code Clone Search via Multiple Code Representations. *Empirical Software Engineering*, 2019.

8. C. Ragkhitwetsagul, J. Krinke, M. Paixao, G. Bianco, R. Oliveto, Toxic Code Snippets on Stack Overflow, *IEEE Transactions on Software Engineering*, 2019.

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

Conferences

1. Racharak T., Ragkhitwetsagul C., Sontesadisai C., and Sunetnanta T., *Test It Before You Trust It: Applying Software Testing for Trustworthy In-context Learning* , Proceedings of the 30th Annual International Conference on Natural Language & Information Systems (NLDB 2025), 4-6 July 2025, Kanazawa, Japan.

2. Kancharoendee S., Phichitphanphong T., Jongyingyos C., Reid B., Kula R.G., Choetkiertikul M., Rakhitwetsagul C., Sunetnanta T., *On Categorizing Open Source Software Security Vulnerability Reporting Mechanisms on GitHub* , Proceedings of the 32nd IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER), 4-7 March 2025, Montreal, Quebec, Canada.

3. Kazimoto D. M., Choetkiertikul M., Ragkhitwetsagul C., Sunetnanta T., *DEV-EYE: A Tool for Monitoring Bus Factor Using Commit History*, Proceedings of the 31st Asia-Pacific Software Engineering Conference (APSEC 2024) Early Research Achievement Track, 3-6 December 2024, Chongqing, China.

4. Sriwilailak C., Higo Y., Lapvikai P., Ragkhitwetsagul C., Choetkiertikul M., *Autorepairability of ChatGPT and Gemini: A Comparative Study*, Proceedings of the 31st Asia-Pacific Software Engineering Conference (APSEC 2024) Early Research Achievement Track, 3-6 December 2024, Chongqing, China.

5. Ragkhitwetsagul C., Kongwongsupak K., Maneesawas T., Puttiwarodom N., Rojpaisarnkit R., Choetkiertikul M., Kula R. G., Sunetnanta T., *jscefr: A Framework to Evaluate the Code Proficiency for JavaScript*, Proceedings of the 40th International Conference on Software Maintenance and Evolution (ICSME '24) Tool Demo Track, 6-11 October 2024, Flagstaff, AZ, USA.

6. Sousa D., Paixao M., Ragkhitwetsagul C., and Uchoa I., *Code Clone Configuration as a Multi-Objective Search Problem*, Proceedings of the 18th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM '24) Emerging Results, Vision and Reflection Papers Track, 20-25 October 2024, Barcelona, Spain.

7. Rojpaisarnkit R., Robles G., Kula R. G., Wang D., Ragkhitwetsagul C., Gonzalez-Barahona J. M., Matsumoto K., *Towards Identifying Code Proficiency through the Analysis of Python Textbooks*, Proceedings of the 40th International Conference on Software Maintenance and Evolution (ICSME '24), 6-11 October 2024, Flagstaff, AZ, USA.

8. Ragkhitwetsagul C., Prasertpol V., Ritta N., Sae-Wong P., Noraset T. and Choetkiertikul M., *Typhon: Automatic Recommendation of Relevant Code Cells in Jupyter Notebooks*, Proceedings of the 21st International Joint Conference on Computer Science and Software Engineering (JCSSE '24), 19-22 June 2024, Phuket, Thailand.

9. Ragkhitwetsagul C., Jarukitpipat V., Kula R. G., Choetkiertikul M., Chhun K., Wanprasert W., Sunetnanta T., *See to Believe: Using Visualization To Motivate Updating Third-party Dependencies*, Proceedings of the 21st International Joint Conference on Computer Science and Software Engineering (JCSSE '24), 19-22 June 2024, Phuket, Thailand.

10. Sanamontre T., Visoottiviseth V., and Ragkhitwetsagul C., *Detecting Malicious Android Game Applications on Third-Party Stores Using Machine Learning*, Proceedings of the 38th International Conference on Advanced Information Networking and Applications (AINA 2024), Volume IV, LNDECT 202, 17-19 April 2024, Kitakyushu, Japan.

11. Lapvikai P., Ragkhitwetsagul C., Choetkiertikul M., Higo Y., *Autorepairability: A New Software Quality Characteristic*, 31st IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2024), Rovaniemi, Finland.

12. Choetkiertikul M., Hoonlor A., Ragkhitwetsagul C., Pongpaichet S., Sunetnanta T., Settewong T., Jiravatvanich V., Kaewpichai U., *Mining the Characteristics of Jupyter Notebooks in Data Science Projects* in the Mining Software Repositories 2023 (MSR '23) - Registered Report, 15-16 May 2023, Melbourne, Australia.

13. Rattanukul, P., Chansida Makaranond, C., Pumipat Watanakulcharus, P., Ragkhitwetsagul, C.,Nearunchorn†, T., Visoottiviseth, V., Choetkiertikul, M., Sunetnanta, T., *Microusity: A testing tool for Backends for Frontends (BFF) Microservice Systems* in the The 31st IEEE/ACM International Conference on Program Comprehension (ICPC '23), 15-16 May 2023, Melbourne, Australia.

14. Ritta, N., & Settewong, T., Kula, R. G., Ragkhitwetsagul, C., Sunetnanta, T., & Matsumoto, K., *Reusing My Own Code : Preliminary Results for Competitive Coding in Jupyter Notebooks* in the 29th Asia-Pacific Software Engineering Conference (APSEC 2022), 6-9 December 2022, Virtual Event.

15. Settewong, T., Ritta, N., Kula, R. G., Ragkhitwetsagul, C., Sunetnanta, T., & Matsumoto, K., *Why Visualize Data When Coding ? Preliminary Categories for Coding in Jupyter Notebooks* in the 29th Asia-Pacific Software Engineering Conference (APSEC 2022), 6-9 December 2022, Virtual Event.

16. Ragkhitwetsagul, C., Choetkiertikul, M., Hoonlor, A., & Prachyabrued, M.,*Virtual Reality for Software Engineering Presentations* in the 29th Asia-Pacific Software Engineering Conference (APSEC 2022), 6-9 December 2022, Virtual Event (best paper award).

17. Jarukitpipat, V., Chhun, K., Wanprasert, W., Choetkiertikul, M., Sunetnanta, T., Kula, R. G., Chinthanet, B., Ishio, T., & Matsumoto, K., *V-Achilles : An Interactive Visualization of Transitive Security Vulnerabilities*. The 37th IEEE/ACM International Conference on Automated Software Engineering (ASE '22) - Tool Demonstration Track, 10-14 October 2022, Michigan, USA.

18. Ragkhitwetsagul C., Paixao M., *Recommending Code Improvements Based on Stack Overflow Answer Edits*, International Conference on Mining Software Repositories (MSR '22) – Registered Report, 18-20 May 2022, Pittsburgh, PA, USA (Virtual Event).

19. Ragkhitwetsagul C., Krinke J., Choetkiertikul M., Sunetnanta T., Sarro F., *Identifying Software Engineering Challenges in Software SMEs: A Case Study in Thailand.* in the 29th International Conference on Software Analysis, Evolution, and Reengineering (SANER'22) - Industry Track, 15-18 March 2022, Honolulu, Hawaii (Virtual Event).

20. Phaithoon S., Wongnil S., Pussawong P., Choetkiertikul M., Rakhitwetsagul C., Sunetnanta T., Maipradit R., Hata H., Matsumoto K., *FixMe: A GitHub Bot for Detecting and Monitoring On-hold Self-Admitted Technical Debt.* in the Proceedings of the International Conference on Automated Software Engineering (ASE) - Tool Demonstrations Track, 2021 (Virtual Event).

21. Robert White, Jens Krinke, Earl Barr, Federica Sarro, Chaiyong Ragkhitwetsagul, *Artefact Relation Graphs for Unit Test Reuse Recommendation.* in the Proceedings of IEEE International Conference on Software Testing (ICST), Virtual Event.

22. D. Han, C. Ragkhitwetsagul, J. Krinke, M. Paixao, G. Rosa, *Does code review really remove coding convention violations?*. in the 20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) in Adelaide, Australia.

23. C. Khanan, W. Luewichana, K. Pruktharathikoon, J. Jiarpakdee, C. Tantithamthavorn, M. Choetkiertikul, C. Ragkhitwetsagul, T. Sunetnanta. *JITBot: An Explainable Just-In-Time Defect Prediction Bot*, in the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE '20) - Tool Demo Track, September 21–25, 2020, Virtual Event, Australia.

24. P. Phan-udom, N. Wattanakul, T. Sakulniwat, C. Ragkhitwetsagul, T. Sunetnanta, M. Choetkiertikul, R.G. Kula *Teddy: Automatic Recommendation of PythonicIdiom Usage For Pull-Based Software Project*, in the 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020) in Adelaide, Australia.

25. J. Wilkie, Z. Al Halabi , A. Karaoglu , J. Liao , G. Ndungu, C. Ragkhitwetsagul, M. Paixao , J. Krinke. 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.

26. M. Paixao, J. Krinke, D. Han, C. Ragkhitwetsagul and M. Harman. 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.

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

28. C. Ragkhitwetsagul, J. Krinke, D. Clark. 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.

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

Workshops

1. Deeprom R., Yang S., Higo Y., Choetkiertikul M. and Ragkhitwetsagul C., *Challenges in Adopting LLaMA: An Empirical Study of Discussions on Stack Overflow*, Proceedings of the 12th International Workshop on Quantitative Approaches to Software Quality (QuASoQ 2024), 3 December 2024, Chongqing, China.

2. Krinke J. and Ragkhitwetsagul C.,*BigCloneBench Considered Harmful for Machine Learning.* in the 16th International Workshop on Software Clones (IWSC '22), 2 October 2022, Limassol, Cyprus (best paper and best presentation awards).

3. N. Assavakamhaenghan, M. Choetkiertikul, S. Tuarob, R. G. Kula, H. Hata, C. Ragkhitwetsagul, T. Sunetnanta, and K. Matsumoto. *Software Team Member Configurations: A Study of Team Effectiveness in Moodle*, in the 10th International

Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan.

4. T. Sakulniwat, R. G. Kula, C. Ragkhitwetsagul, M. Choetkiertikul, T. Sunetnanta, D. Wang, T. Ishio and K. Matsumoto. *Visualizing the Usage of Pythonic Idioms Over Time: A Case Study of the with open Idiom*, in the 10th International Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan.

5. V. Arammongkolvichai, R. Koschke, C. Ragkhitwetsagul, M. Choetkiertikul, T. Sunetnanta. *Improving Clone Detection Precision using Machine Learning Techniques*, in the 10th International Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan.

6. C. Ragkhitwetsagul, J. Krinke. 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.

7. C. Ragkhitwetsagul, J. Krinke. Using Compilation/Decompilation to Enhance Clone Detection. In *11th International Workshop on Software Clones,* 2017. Klagenfurt, Austria.

Technical Reports

- C. Ragkhitwetsagul, J. Krinke, R. Oliveto. 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.

Student Supervision

Doctoral Student Supervision

2022 – 2024
- In-on Wiratsin, *Improving Software Quality Using Crowdsourcing Knowledge and Artificial Intelligence*, Recipient of the Mahidol PhD scholarship 2022.

Master Student Supervision

2023

- Chayanee Junplong, *LLMs for Human-interpretable Explanation in Code Clone Detection* (co-supervise with Junior Assoc. Prof. Dr. Teeradaj Racharak)

- Thanaporn Sanamontre, *Detecting Altered Malicious Android Game Applications on Third-party Repositories* (co-supervise with Assoc. Prof. Dr. Vasaka Visoottiviseth)

Undergraduate Student Supervision

2024

- Warittha Tarntong, Prachnachai Meakpaiboonwattana, Thai Mekratanavorakul*, Social Media Reactions to Open Source Promotions: AI-powered GitHub Projects on HackerNews* (co-supervise with Dr. Pattaraporn Sangaroonsilp, Prof. Raula G. Kula).

- Napat Boongaree, Pachanitha Saeheng, Chutweraya Sriwilailak, *NPC: Detecting and Explaining LLM-generated Source Code* (co-supervise with Assoc. Prof. Dr. Teeradaj Racharak, Asst. Prof. Dr. Ekapol Chuangsuwanich)

- Chalisa Sae-ngow, Jirateep Rudeerudchanawong, Chommakorn Sontesadisai, *PromptOps: Automated Tool for Testing LLMs* (co-supervisor, main advisor: Asst. Prof. Dr. Thanwadee Sunetnanta)

2023

- Rujiphart Charatvaraphan, Bunradar Chatchaiyadech, Thitirat Sukijprasert, Project: *Analyzing coding competency of Python contributors in   open-source projects* (co-supervise with Dr. Morakot Choetkiertikul, Dr. Raula G. Kula).

2022

- Veerakit Prasertpol, Natanon Ritta, Paphon Sae-wong, Project: *Recommending Python coding alternatives in Jupyter notebooks*

- Komsan Kongwongsupak, Thanakit Maneesawas, Natpichsinee Puttiwarodom, Project: *Defining and evaluating JavaScript code competency* (co-supervise with Dr. Morakot Choetkiertikul, Dr. Raula G. Kula).

- Tasha Settewong, Natanon Ritta, NAIST summer internship (co-supervised with Asst. Prof. Dr. Thanwadee Sunetnanta and Dr. Morakot Choetkiertikul, Dr. Raula G. Kula).

2021

- Chansida Makaranond, Pattarakrit Rattanukul, Pumipat Watanakulcharus Project: *Microusity: Security Testing Tool for Backend for Frontend (BFF) Microservice Architecture* (co-supervise with Asst. Prof. Dr. Vasaka Visoottiviseth and Tanapol Nearunchorn, Lineman Wongnai)

2020

- Tasha Settewong, Natanon Ritta, NAIST summer internship (co-supervise with Asst. Prof. Dr. Thanwadee Sunetnanta and Dr. Morakot Choetkiertikul, Dr. Raula G. Kula).

- Phattharapong Poolthong, Panaya Sirilertworakul, Kanika Wonwien Project: *JARVAN: Automatic checker for outdated StackOverflow answers in software projects.*

- Vipawan Jarukitpipat, Wachirayana Wanprasert, Klinton Chhun Project: *Achilles: Analysis of effects from software dependency vulnerabilities* (co-supervise with Dr. Raula G. Kula).

2019

- Vara Arammongkolvichai, Weekit Ausavaserenont, Wannaporn Vichaisri Project: *Merry: Web-based Code Clone Detection System using Machine Learning* (co-supervise with Prof. Rainer Koschke).

- Purit Phan-udom, Naruedon Wattakul, Tattiya Sakulniwat Project: *TEDDY: Automated tool for detection and suggestion of Pythonic idiom usage* (co-supervised Asst. Prof. Dr. Thanwadee Sunetnanta and Dr. Raula G. Kula).

- (Co-supervisor) Thanachanok Siripittakul, Peerachai Banyongrakkul, Thayut Indramaha Project: *Sprint2Vec: A deep learning-based model for learning vector representation of iterative software development*

- (Co-supervisor) Krissakorn Pruktharathikoon, Natcha Sirikunanon, Rapipat Udomgun Project: *Bug Hunter v.2*

Selected Professional Services

Software Engineering Consultant (2019—2024):

- Providing consultant to companies regarding the adoption of ISO/IEC 29110-4-1:2018 Systems and software engineering - Lifecycle profiles for Very Small Entities (VSEs)

Reviewer of Software Engineering Journals:

- Transactions on Software Engineering (TSE)
- Empirical Software Engineering (EMSE)
- ACM Transactions on Software Engineering and Methodology (TOSEM)
- Journal of Systems and Software (JSS)
- Software: Practice and Experience (SPE)
- Journal of Software: Evolution and Process (JSEP)
- IEEE Access
- Science of Computer Programming (SCP)
- Software Quality Journal (SQJ)

Organizing Committee of International Conferences and Workshops:

2024

- Short Papers and Posters Track Co-Chair of the 32nd edition of the IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2025).

2022

- Diversity, Inclusion and Outreach Co-Chair of the 2022 Mining Software Repositories Conference (MSR 2022).

2021

- Program co-chair, Early Research Achievement (ERA) track of the 29th IEEE/ACM International Conference on Program Comprehension (ICPC 2021).

- Guest Editors (with Hitesh Sajnani) for the Journal of Systems and Software: Special Issue on Software Clones.

2020

- Judge for the ACM Student Research Competition-track of the 42nd International Conference on Software Engineering (ICSE 2020).

- Program co-chairs of the 14th International Workshop on Software Clones (IWSC 2020).

Reviewer of International Conferences and Workshops:

2025

- Program committee of the 33rd IEEE/ACM International Conference on Program Comprehension (ICPC '25), Research Track.
- Program committee of the 3rd International Workshop on Responsible AI Engineering (RAIE '25).
- Program committee of the 18th IEEE International Conference on Software Testing, Verification and Validation (ICST '25), Research Papers Track.
- Program committee of the 22nd International Conference on Mining Software Repositories (MSR '25), Technical Papers Track.
- Program committee of the IEEE/ACM International Conference on Software Engineering (ICSE '25), Research Track.

2024

- Program committee of the 36th International Conference on Testing Software and Systems (ICTSS '24), Industry track.
- Program committee of the 39th IEEE/ACM International Conference on Automated Software Engineering 2024 (ASE '24), New Ideas and Emerging Results (NIER) track.
- Program committee of the 39th IEEE/ACM International Conference on Automated Software Engineering 2024 (ASE '24), Tool Demonstration track.
- Program committee of the 40th International Conference on Software Maintenance and Evolution 2024 (ICSME '24), New Ideas and Emerging Results (NIER) track.
- Program committee of the 40th International Conference on Software Maintenance and Evolution 2024 (ICSME '24), Tool Demonstration track.
- Program committee of the 40th International Conference on Software Maintenance and Evolution 2024 (ICSME '24), Doctoral Symposium.
- Program committee of the Symposium on Search-Based Software Engineering 2024 (SSBSE '24), RENE/NIER track.
- Program committee of the ACM International Conference on the Foundations of Software Engineering (FSE '24), Demonstrations track.
- Program committee of the 32nd IEEE/ACM International Conference on Program Comprehension (ICPC '24), Research and Tool Demonstration tracks.
- Program committee of the 46th International Conference on Software Engineering (ICSE '24), Journal First track.
- Program committee of the 3rd International Conference on AI Engineering – Software Engineering for AI (CAIN '24).
- Program committee of the 21st Mining Software Repositories conference (MSR '24), Data and Tool Showcase track.

2023

- Program committee of the 17th International Workshop on Software Clones (IWSC '23).
- Program committee of the 38th IEEE/ACM Interntional Conference on Automated Software Engineering (ASE 2023), Tool Demonstration and NIER tracks.
- Program committee of the 39th International Conference on Software Maintenance and Evolution (ICSME '23), Research Track.
- Program committee of the 20th International Joint Conference on Computer Science and Software Engineering (JCSSE '23).
- Program committee of the 16th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE '23) Registered Reports Track.
- Program committee of the 2nd International Conference on AI Engineering – Software Engineering for AI (CAIN '23).
- Program committee of the 20th International Conference on Mining Software Repositories (MSR '23) Registered Reports Track.
- Program committee of the 20th International Conference on Mining Software Repositories (MSR '23) Data and Tool Showcase Track.
- Program committee of the 20th International Conference on Mining Software Repositories (MSR '23).
- Program committee of the 45th IEEE/ACM International Conference on Software Engineering (ICSE '23) Posters Track.
- Program committee of the 31st IEEE/ACM International Conference on Program Comprehension (ICPC '23) Tool Demonstration Track.

- Program committee of the 31st IEEE/ACM International Conference on Program Comprehension (ICPC '23).
- Program committee of the 30th International Conference on Software Analysis, Evolution, and Reengineering (SANER '23).

2022

- Program committee of the 16th Innovation in Software Engineering Conference (ISEC '23).
- Program committee of the 14th Symposium on Search-Based Software Engineering (SSBSE '22) – (Replications and Negative Results/New Ideas and Emerging Results) RENE/NIER track.
- Program committee of the 16th International Workshop on Software Clones (IWSC '22).
- Program committee of the 37th IEEE/ACM International Conference on Automated Software Engineering (ASE '22) – Tool Demonstration Track.
- Program committee of the 38th IEEE International Conference on Software Maintenance and Evolution (ICSME '22) – Research Track.
- Program committee of the 1st International Conference on AI Engineering – Software Engineering for AI (CAIN'22).
- Program committee of 30th IEEE/ACM International Conference on Program Comprehension (ICPC 2022) – Research Track.
- Program committee of the 2022 Mining Software Repositories Conference (MSR 2022) – Registered Reports, Registered Report Track.
- Program committee of the 2022 Mining Software Repositories Conference (MSR 2022) – Registered Reports, Data and Tool Showcase Track.
- Program committee of the 2022 Mining Software Repositories Conference (MSR 2022) – Registered Reports, Hackathon Track.
- Program committee of the 29th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2022) – Early Research Achievements (ERA) track.
- Program committee of the 15th Innovations in Software Engineering Conference (ISEC 2022) – Research Track.

2021

- Program committee of the 13th IEEE International Conference on Knowledge and Systems Engineering (KSE 2021).
- Program committee of the 15th International Workshop on Software Clones (IWSC 2021).
- Program committee, Replications and Negative Results Track of the 13th Symposium on Search-Based Software Engineering (SSBSE 2021).
- Program committee, Research Track of the 37th International Conference on Conference on Software Maintenance and Evolution (ICSME 2021).
- Program committee, Late Breaking Results track of the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021).
- Program committee, Posters Track of the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021).
- Program committee, Posters Track of the 43rd International Conference on Software Engineering (ICSE 2021).

2020

- Program committee, Late Breaking Results track of the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020).

- Program committee, Research Papers track of the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020).

- Program committee, Technical Research track of 28th IEEE/ACM International Conference on Program Comprehension 2020 (ICPC 2020).

- Program committee of the 13th Innovations in Software Engineering Conference (ISEC 2020).

2019

- Program committee, Technical Research track of the 35th IEEE International Conference on Software Maintenance and Evolution (ICSME 2019).

- Program committee, Technical Research track of 27th IEEE/ACM International Conference on Program Comprehension 2019 (ICPC 2019).

- Program committee, the 13th International Workshop on Software Clones (IWSC 2019).

Ph.D. Thesis Examiner

- Brittany Reid, *Improving Developer Efficiency through Code Reuse,* Doctor of Philosophy, The School of Computer and Mathematical Sciences, University of Adelaide, 2023.

Mentoring:

- Samsung Solve for Tomorrow Thailand 2024, Mentor of Team Maprao, KVIS (Winner)

Selected Invited Talks and Keynote Addresses

- *Challenges in Code Similarity: Accuracy and Scalability*, ReaLearn lab, Japan Advanced Institute of Science and Technology (JAIST), 28 July 2023, Japan

- *Automated Software Engineering for Thailand Software Industry*, Dev Mountain Tech Festival Season 2, 11-13 November 2022, Chiang Mai, Thailand

- *Code Similarity and Clone Search in Large-scale Source Code Data*, Software Engineering lab, Osaka University, 20 August 2020, Japan