

# Ei Pa Pa Pe-Than

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## Research Interests and Approach

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My research interests span computer-supported cooperative work (CSCW), science and technologies studies (STS), and critical human-computer interaction (HCI), and especially how to develop, maintain, and evolve a distributed decentralized software system that builds on a novel and sophisticated coordination model that addresses reinterpretability, resilience, and scalability.

I use case study research approach to address complex socio-technical questions, which includes ethnography (interviews and non-participant observations), archival analysis, quantitative collection of log and trace data with Python, SQL, and R, and a combination of all of these methods (mixed-methods) as appropriate and relevant.

## Education

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Carnegie Mellon University ..... Pittsburgh, PA, USA

2017 - present      **Postdoctoral Researcher**

Advisor: James Herbsleb, Institute for Software Research, School of Computer Science

Topic: Coordination in time-bounded events (hackathons, datathons, etc.) for science, innovation, learning, and community building, and collaborative writing on GitHub

Nanyang Technological University ..... Singapore, Singapore

2010 - 2016      **Doctor of Philosophy in Information Systems**

Advisor: Dion Hoe-Lian Goh and Chei Sian Lee, Wee Kim Wee School of Communication and Information

Thesis: Investigating user-centered human computation games: The role of perceived enjoyment and its antecedents

2008 - 2009      **Master of Science in Information Systems**

University of Computer Studies ..... Yangon, Myanmar

2001 - 2005      **Bachelor of Science (Hons.) in Computer Science**

## Employment

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- Carnegie Mellon University ..... Pittsburgh, PA, USA  
2017 - present     **Postdoctoral Researcher**  
Advisor: James Herbsleb, Institute for Software Research, School of Computer Science  
Topic: Coordination in time-bounded events (hackathons, datathons, etc.) for science, innovation, learning, and community building, and collaborative writing on GitHub
- Nanyang Technological University ..... Singapore, Singapore  
2015 - 2016     **Research Associate and Part-time Lecturer**
- NCS ..... Singapore, Singapore  
2009 - 2010     **Application Consultant** (Software Developer)
- University of Computer Studies ..... Yangon, Myanmar  
2005 - 2007     **Tutor**

## Research Funding

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- NTU Doctoral Research scholarship  
Nanyang Technological University, Singapore  
Duration: August 2010 – August 2014  
Amount: S\$ 111,600
- Grant for Research Student  
Nanyang Technological University, Singapore  
Duration: 2011 – 2014  
Amount: S\$ 2,800
- Conference Travel Grant  
Nanyang Technological University, Singapore  
Year: 2016  
Amount: S\$ 1,000

## Publications

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### Referred Journal Publications

1. **Pe-Than, E.P.P.**, Nolte, A., Filippova, A., Bird, C., Scallen, S., and Herbsleb, J.D. "Corporate Hackathons, How and Why? A Multiple Case Study of Motivation, Project Proposal and Selection, Goal Setting, Coordination, and Project Continuation." [First round of revisions submitted to Human-Computer Interaction Journal]

2. **Pe-Than, E.P.P.**, Dabbish, L., and Herbsleb, J.D. "Collaborative Writing at Scale: Investigation of Pull-Based Model on GitHub." [Under the review of CSCW 2020]
3. Nolte, A., **Pe-Than, E.P.P.**, Filippova, A., Bird, C., Scallen, S., and Herbsleb, J.D. (2018). "You Hacked and Now What?: - Exploring Outcomes of a Corporate Hackathon." In *Proceedings of the ACM on Human Computer Interaction*, 2 (CSCW'18), Article 129, 23 pages. <https://doi.org/10.1145/3274398>
4. **Pe-Than, E.P.P.**, Nolte, A., Filippova, A., Bird, C., Scallen, S., and Herbsleb, J.D. (2018). "Designing Corporate Hackathons with a Purpose." *IEEE Software*, 36 (1), 15-22. <https://doi.org/10.1002/asi.23863>

## Referred Conference Publications

1. **Pe-Than, E.P.P.** and Herbsleb, J.D. (2019). "Understanding Hackathons for Science: Collaboration, Affordances, and Outcomes." In *Taylor N., Christian-Lamb C., Martin M., Nardi B. (eds) Information in Contemporary Society, iConference'19. Lecture Notes in Computer Science, vol 11420 (iConference'19)*, pp. 27-37. Springer, Cham. [https://doi.org/10.1007/978-3-030-15742-5\\_3](https://doi.org/10.1007/978-3-030-15742-5_3)

## Referred Short Publications

1. **Pe-Than, E.P.P.**, Dabbish, L., and Herbsleb, J.D. (2018). "Collaborative Writing on GitHub: A Case Study of a Book Project." In *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW'18)*, pp. 305-308. <https://doi.org/10.1145/3272973.3274083>

## Referred Workshop Publications

1. **Pe-Than, E.P.P.**, Herbsleb, J.D., Nolte, A., Gerber, E., Fiore-Gartland, B., Chapman, B., Moser, A., and Wilkins-Diehr, N. (2018). "The 2nd Workshop on Hacking and Making at Time-Bounded Events: Current Trends and Next Steps in Research and Event Design." In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA'18)*, paper W35, 8 pages. <https://doi.org/10.1145/3170427.3170615>

## Selected Other Publications

1. **Pe-Than, E.P.P.**, Momcheva, I., Tolleud, E., and Herbsleb, J.D. (2019). "Hackathons for Science, How and Why?" *Poster presented at the 233rd Meeting of the American Astronomical Society, AAS Meeting #233*, id.459.11. <https://ui.adsabs.harvard.edu/abs/2019AAS...23345911P/abstract>
2. **Pe-Than, E.P.P.**, Dabbish, L., and Herbsleb, J.D. (2019). "Collaborative Writing at Scale: A Case Study of Two Open-Text Projects Done on GitHub." *Paper presented at the 7th ACM*

*Conference on Collective Intelligence 2019 (CI'19).* [https://ci.acm.org/2019/assets/proceedings/CI\\_2019\\_paper\\_65.pdf](https://ci.acm.org/2019/assets/proceedings/CI_2019_paper_65.pdf)

3. Powell, J., Hayden, L., Nolte, A., Herbsleb, J.D., **Pe-Than, E.P.P.**, Wong, M., Kalyanam, R., Ellet, K., Pamidighantam, S., Traxler, K., and Cannon, A. (2018). "An Analysis of the PEARC 2018 Science Gateways Community Institute Hackathon: Lessons Learned." *Poster presented at Gateways 2018 organized by the Science Gateways Community Institute (SGCI).* <https://doi.org/10.6084/m9.figshare.7070309.v2>
4. **Pe-Than, E.P.P.**, and Nolte, A. (2018). "The 2nd Workshop on Hacking and Making at Time-Bounded Events." *Technical Report CMU-ISR-18-109, Carnegie Mellon University.* <http://eipapa.github.io/files/ISR-techreport-2018.pdf>
5. **Pe-Than, E.P.P.**, Nolte, A., Filippova, A., Bird, C., Scallen, S. and Herbsleb, J.D. (2018). "An Empirical Study of Team Familiarity, Goal Setting, and Process in Time-Bounded Events." *Poster presented at the 13th Annual Interdisciplinary Network for Group Research Conference (INGRoup'18).*
6. **Pe-Than, E.P.P.**, Goh, D.H.-L., and Lee, C.S. (2017). "Does it matter how you play? The effects of collaboration and competition among players of human computation games." *Journal of the Association for Information Science and Technology*, 68 (8), 1823-1835. <https://doi.org/10.1002/asi.23863>
7. **Pe-Than, E.P.P.**, Goh, D. H.-L., and Lee, C.S. (2016). "Personality, motivations, and information quality: A comparative study across games for human computation." In *Proceedings of the Association for Information Science and Technology (ASIS&T'16)*, 53 (1), 1-10. <https://doi.org/10.1002/pr2.2016.14505301049>
8. **Pe-Than, E.P.P.**, Goh, D.H.-L., and Lee, C.S. (2015). "A typology of human computation games: An analysis and a review of current games." *Behaviour and Information Technology*, 34 (8), 809-824. <https://doi.org/10.1080/0144929X.2013.862304>
9. **Pe-Than, E.P.P.**, Goh, D. H.-L., and Lee, C.S. (2015). "The effects of collaboration and competition on players' perceptions in human computation games." In *Proceedings of the 17th International Conference on Asia-Pacific Digital Libraries (ICADL'15)*, pp. 246-251, Springer International Publishing. [https://doi.org/10.1007/978-3-319-27974-9\\_25](https://doi.org/10.1007/978-3-319-27974-9_25)
10. **Pe-Than, E.P.P.**, Goh, D.H.-L., and Lee, C.S. (2014). "Making work fun: Investigating antecedents of perceived enjoyment in human computation games for information sharing." *Computers in Human Behavior*, 39 (2014), 88-99. <https://doi.org/10.1016/j.chb.2014.06.023>
11. **Pe-Than, E.P.P.**, Goh, D. H.-L., and Lee, C.S. (2012). "Enjoyment of a mobile information sharing game: Perspectives from needs satisfaction and information quality." In *Proceedings of 14th International Conference on Asia-Pacific Digital Libraries (ICADL'12)*, pp. 126-135, Springer Berlin Heidelberg. [https://doi.org/10.1007/978-3-642-34752-8\\_16](https://doi.org/10.1007/978-3-642-34752-8_16)

## Teaching

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### Nanyang Technological University, Singapore

#### Instructor

CI6221	Information Visualization (cross-listed, graduate)	Aug 2016
CI6228	Managing Information Systems (graduate)	Jan 2016
IN9008	Digital Social Games for Organizations (undergraduate)	Jan 2015

#### Teaching Assistant

IN9006	Social Computing and Applications (graduate)	Jan 2014
CS2008	Fundamentals of Research (undergraduate)	Aug 2013
CI6208	Research Methods and Data Analysis for Information Professionals (graduate)	Jan 2013
CI6222	Mobile & Ubiquitous Applications (graduate)	Aug 2012

### University of Computer Studies, Yangon

#### Tutor

Fundamentals of Data Structures (undergraduate)	2006-2007
Operating Systems (undergraduate)	2006-2007

## Professional Services

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### Reviewing

2020	ECIS: European Conference on Information Systems iConference
2019	ACM CSCW: ACM Conference on Computer-Supported Cooperative Work ECIS: European Conference on Information Systems iConference
2018	ACM CHI: ACM Conference on Computer-Human Interaction ECIS: European Conference on Information Systems iConference
2017	ACM CHI: ACM Conference on Computer-Human Interaction Journal of Information Science Theory and Practice
2016	Cyberpsychology, Behavior, and Social Networking Aslib Journal of Information Management

2015                      ECIS: European Conference on Information Systems

## **Organizing**

2019                      World of Code (WoC) hackathon, Carnegie Mellon University  
2018                      Science Gateways Hackathon by the Science Gateways Community Institute (SGCI), PEARC18 Conference, Wyndham Grand Pittsburgh  
2018                      ACM Workshop on Hacking and Making at Time-Bounded Events: Current Trends and Next Steps in Research and Event Design, ACM CHI'18, Montreal, Canada

## **Volunteering**

2016                      Student Volunteer, The 66th Annual Conference of the International Communication Association (ICA)  
2011-2013                Student Assistant, Graduate Admission Exercise, Wee Kee Wee School of Communication and Information  
2011                      Student Volunteer, International Conference on Social Informatics (SocInfo2011)

## **Professional Associations**

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ACM                      Association for Computing Machinery  
ACM SIGCHI            Special Interest Group on Computer–Human Interaction  
ACM SIGSOFT          Special Interest Group on Software Engineering  
ASIS&T                Association for Information Science & Technology