

Dilrukshi Gamage

"Let's build networked open online workforce via open online education to meet the next generation challenges"



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EDUCATION

2015 Feb – 2021
June

Ph.D. | University of Moratuwa, Sri Lanka

- Thesis title – Improving effectiveness of MOOCs to meet 21st century skills
- Interest in digital social systems, learning communities to improve interactions and collaboration by building trust and facilitation
- Main focus in MOOCs, HCI and computational social science

2010 Jun –
2012 Jun

M.Sc. | Sri Lanka Institute of Information Technology (SLIIT), Sri Lanka

- Majoring Information Technology (IT) completed with **Distinction**
- GPA 3.63/4.0

EXPERIENCE

2021 April –
Present

Post-doctoral Research Fellow at Tokyo Institute of Technology

- Working under a **JST** funded research project to establish principles and technologies for social systems relating FakeMedia generation/detection and detoxification
- Working at the [Sasahara Labs](#) with Prof. Kazutoshi Sasaraha – mainly on multimodal data analysis
- Understanding Deepfake media detection, discourse and landscape, mostly use tools and technologies such as Gephi, Python, RStudio

2020 Oct –
Dec

Research Sprint at the Berkman Klein Centre (BKC) for Internet & Society at Harvard University

- [Worked as a participant researcher](#) for the "Digital Ethics in Times of Crisis: COVID-19 and Access to Education and Learning Spaces" Research Sprint, hosted by the [Berkman Klein Center](#) in collaboration with the [Global Network of Internet & Society Centers](#) and under the patronage of the Federal President of Germany Frank-Walter Steinmeier.
- The Research Sprint brought together student participants, other domain experts, and mentors for BKC to discuss core foundational issues at the intersection of ethics, digitization, and education during this time of crisis.

- Contributions were made towards an output for decision makers around the world to help them address COVID-19's short- and long-term impact on education and learning more broadly.

2020 April –
Present

Member at Reproducible Research Oxford (RROx)

- [RROx](#) is Reproducible Network at the University of Oxford. A University wide initiative focused on advancing the open research agenda at Oxford. The goal is to promote a coordinated approach to open scholarship and research reproducibility that extend to all disciplines.
- Since my visit to [Oxford-Berlin Summer School](#), I take part in the [Online study](#) group where communities of researchers meet 3 times a week, for [reproducible paper discussions](#), [statistical rethinking book club](#) and [computer skill book club](#)

2018 Dec –
Present

Researcher / Member at Credibility Coalition (UX Group & Asia Group)

- [Credibility Coalition](#) is a research community that fosters collaborative approaches to understanding the veracity, quality and credibility of online information which is foundation of civil society
- I work in the [UX group](#) who lead by [Amy Zhang](#), currently a Post Doc at [Stanford University](#) – we research on credibility user experience in the internet and combating misinformation
- Recently joined to a new group (Asia) with [Dr. Scott Hale](#), currently Snr. Research fellow at [OII, Oxford University](#) where we work as active group in working towards solutions for mitigating misinformation in the internet in Asia

2018 May –
2018 Aug

Research Collaboration

- Research experience working with [Mark Whiting](#), Post doc at [Stanford University](#) under advice of Prof [Michael Bernstein](#) at the HCI group [Stanford University](#)
- Working on a research experiment collaborated with [Thomas Staubit](#) PhD student at HPI Germany on designing interventions to scale social presence in MOOCs

2018 Feb –
2018 May

Mozilla Open Leader

- Selected to a 14-weeks intense training program on open research practices by Mozilla Mentored by Athina Tzovara Post doc Neuroscientist at UC Berkeley
- <https://mozilla.github.io/leadership-training/round-5/projects/#cohort-b>
- Collaboratively lead the project (Open Online Study Group) with Mark Whiting, Post doc at Stanford University
- Our project got featured in program among 100+ projects
- <https://medium.com/read-write-participate/adding-meaningful-connections-to-open-online-courses-4da41c89c5d1>

2015 Apr –
2018 Apr

Researcher at Stanford Worldwide Crowd Research Collective

- A crowdsourcing research project-initiated by Dr. [Rajan Vaish](#) and Prof. [Michael Bernstein](#) at Stanford University.
- 1000+ worldwide researchers contribute in ideation, coding, designing and implementing an open-source crowdsourcing marketplace 'Daemo' - <https://www.daemo.org/home>
- I played a key role in many initiatives inside the project on Crowd Governance structure, User research, User Experience Design. Ranked to top 10 authors on the collective papers we publish in UIST, CSCW and HCOMP - Authors are ranked using PageRank algorithm
http://crowdresearch.stanford.edu/w/index.php?title=Main_Page

2013 Feb –
Present

Co-Founder / Director / Consultant

- Co-founded a consultancy company with partner (in Life) who holds a PhD from UEC Japan
- We provide innovative technological solutions, Technology Optimizations, Technological (LTE, 5G, 3G, User Centered Design) training to local and international clients
- We live on this income

2020 Nov

digital futur **HONORS / AWARDS / TRAVEL GRANTS** Future Digileaders 2020 | **Stockholm Sweden**

- [Early career researcher fellowship for women](#)
- The event is a part of the Digitalize in Stockholm, an annual conference and meeting place for global thought leaders and rising stars engaged in transformation through digitalization in academia, industry, government and civil society held on November 9 and 10, 2020 as a digital event.

2020 Oct



Rising Stars 2020 Academic Career Workshop for Women in EECS | **UC Berkeley**







- [Rising Stars](#) is an intensive workshop aimed at increasing the numbers of women interested in pursuing academic careers in computer science, computer engineering and electrical engineering. The annual event was launched at the Massachusetts Institute of Technology in 2012 and previously hosted by UC Berkeley in 2014.
- Participants are selected based on academic excellence, interest in a faculty career in the EECS discipline, and commitment to advancing equity and inclusion.

2020 Apr



ACM SIGCHI Gary Marsden student development fund Grant | **Hawaii USA**

- A Competitive grant provided for global south based excellent student records and I received the funds to take part in CHI2020 (due to COVID-19- redirect for CHI2021)

2019 Apr Aug Nov		ACM SIGCHI Travel Grant IIT Bombay India Dhaka Bangladesh Osaka Japan <ul style="list-style-type: none"> - A Competitive travel grant provided for excellent student records to take part in Summer/Winter schools organize by SIGCHI
2019 Sep		Oxford Berlin Summer School placement and travel Grant Oxford University UK <ul style="list-style-type: none"> - A placement in the summer school and travel grant to take part of the program to learn about open research practices and graduate studies skills
2019 Jun		European Association of Technology Enhanced Learning – EATEL summer school Scholarship Bari Italy <ul style="list-style-type: none"> - Summer School on Technology Enhanced Learning (TEL) is an event brings together each year 80 to 100 researchers, including about 50 PhD candidates and provides a stimulating learning environment where participants get opportunities to: develop research skills, increase their knowledge base, collaborate with others in their own and complementary research areas, engage in debate, have access to experts in the field, and discuss their own work - I was selected to the summer school including the scholarship to attend the program where I had opportunity learn from subject experts and collaborate
2018 Sep		Grace Hopper Conference (GHC) Scholarship Award Houston USA <ul style="list-style-type: none"> - Scholarship awarded based on rigorous review process through 9000+ applications and select only ~15% gets a chance
2018 May		IEEE Women in Engineering Leadership Conference Scholarship California USA <ul style="list-style-type: none"> - Scholarship is awarded based on dedication and contributions to the Women in tech activities and usually 1000+ applicants compete for it [this is my second time to win this award, which is not common]
2018 Apr		Global Open Education Graduate Network (GO-GN) Fellowship Delft Netherlands <ul style="list-style-type: none"> - Selected from 100+ application to attend Global Open Education Conference and GO-GN workshop on open research practices ~20 applicants were selected based on research practices academic performances

2017 Sep		Young Researcher at Heidelberg Laureate forum Heidelberg Germany <ul style="list-style-type: none"> - Selected based on academic, research and leadership performances. Usually 1000+ applicants compete and only 200 get selected the program, further, honored to receive the financial grant where only few get selected among 200 - Were exposed to learn and mentored by great scientists who are Nobel prize winners, ACM Turning award winners i, e Martin Hellman Public Key Cryptography, Jeff Dean Google Brain
2017 Aug		Google WTM scholarship Google APAC – South Korea <ul style="list-style-type: none"> - AKA Anita Borg Scholarship, grants to women in computer science who demonstrate higher performances in academic, research and leadership with great potentials - A very competitive scholarship provided by Google
2017 Aug		Asia Pacific Computer Science Education Foundation Merit Scholarship IIT Mumbai <ul style="list-style-type: none"> - Out of 100+ applications my doctoral paper got accepted for scholarship to attend ICCE Conference hosted by IIT Mumbai
2017 Jun		National Research Council (NRC) Grant <ul style="list-style-type: none"> - Selected the research project and awarded 1.5MN LKR grant by the NRC to improve the MOOC effectiveness
2017 May		IEEE Women in Engineering Leadership Conference Scholarship California USA <ul style="list-style-type: none"> - Scholarship is awarded based on dedication and contributions to the Women in tech activities and usually 1000+ applicants compete for it http://ieee-wie-ilc.org/change-makers/
2017 Apr		Smart@work Human Computer Interaction spring school fellowship 2017 Dresden Germany <ul style="list-style-type: none"> - Selected based on academic, research and leadership demonstrations. Only 22 selected around the world to interact with other researchers at TU Dresden University, Germany - http://smartatwork.org/
2016 Sep		ACM Richard Tapia Diversity in Computing Scholarship Austin USA <ul style="list-style-type: none"> - Selected among 1500+ applicants around the world to attend to the conference which embrace the diversity of Computing - Selected to present the PhD research, only 179 students got selected to scholarship with 10 Graduate presentation

2015 Sep

Best paper award at the IEEE Ubi -Media Conference
Paper- "Framework to identify effectiveness of MOOC"

2014 Nov



ACM – W Scholarship | Nara Japan

- One-time scholarship offered by ACM women based on academic, research and leadership performance. A Competitive scholarship which only offered to student who demonstrate higher academic, research and leadership skills

PROJECTS

2015 Sep –
2015 Dec

Digital Internship – Alpha Project with London Taxi Company

- Selected out of 250 applicants to work on business strategy and envision the future of the taxi industry
- Worked with 20 highly skilled global team stargazing new business model's product design
- <https://www.thecge.net/first-alpha-team-presents-to-the-london-taxi-company/>

2014 Apr –
2014 Aug

Teach2Learn MIT IDEA's Global Challenge

- I worked as a User researcher UX designer for a newly built platform based on an effective teaching pedagogy
- The project was handled by a MIT Sloan MBA student- Jerry Chang. I collaborated with him through the MIT IDEAS challenge portal and assist to improve the design ideas, market research, ethnographic studies, user research to the product

2012 April –
Present

21st century MOOC learner -Personal project

- I have been an enthusiastic lifelong learner, taking MOOCs from 7 different platforms to observe interactions, gathering learning experiences and working to fill the skill gap.
- So far completed 50+ MOOCs
- <http://www.bit.ly/dilrukshigamage>

PROFESSIONAL SERVICES/ VOLUNTEERING

2019 Dec –
Present

Founder/ Chairperson, Colombo ACM SIGCHI Chapter

- After interacting with the Special Interest Group for Computer-Human Interaction global (www.sigchi.org) , worked towards establishing a chapter in Sri Lanka where many HCI researchers can work towards promoting this under represented subject

2020 April –
Present

Diversity and Inclusion Committee – Society of Learning Analytics Research (SoLAR)

- <https://www.solaresearch.org/>

2019-2020	ACM SIGCHI Diversity and Inclusion team – Geography and Inclusion
	- Committee member ACM SIGCHI Inclusion Innovator Programs Geographic Inclusion Issues Team
2018 May – 2021 May	Main program committee IEEE Women in Engineering (WIE) International Leadership Conference ILC2019, ILC2020 ILC2021, USA
	- Usually, 1000+ participants from 100+ countries attend - http://ieee-wie-ilc.org/
2018 Feb – 2018 Dec	Conference Secretary 6th IEEE Region 10 Humanitarian Technology Conference 2018 Colombo, Sri Lanka
	- 100+ participants from 15+ countries
2018 Feb – 2019 Feb	Secretary for IEEE Sri Lanka Section
	- http://ieee.lk/executive-committee-2018/
2016 Feb – 2019 Feb	IEEE SL executive committee / IEEE Women Engineering Organizing committee
	- Co-organized 5+ conferences, 10+ workshops and 13+ leadership development programs
	- lead many projects with volunteering 3-4 working hours per week leading student and professional teams of 1000+

ACADEMIC SERVICE / REVIEWING

	Program Committee
2020-2021	Associate Chair (AC) for ACM CSCW – Top rank HCI conference
	- https://cscw.acm.org/2021/index.php/papers/
2019-2021	Associate Chair (AC) ACM CHI Late Breaking work (LBW)
	- Served in CHI2021 / CHI2020 / CHI2019
	- ~ 3500+ submissions Acceptance rate 23%
2021	Program Committee at 26th ACM Annual Conference on Innovation and Technology in Computer Science Education ITiCSE 2021– Germany
2021	International Track – Europe MOOC 2021
2017 – Present	GHC Program Committee Member
	- Session chair at Grace Hopper Conference HCI track
	- GHC2017, 2018, 2019, 2020
	Journal Reviews
2021	Reviewed British Journal of Educational Technology (BJET) impact factor >2.0
2018 – Present	Reviewed Elsevier Computers & Education Journal Impact factor 5.0 (highest)
2017 – Present	Reviewed Open Access Journal IRROLD Impact factor 2.0
2017 – Present	Reviewed Computer Applications in Engineering Education impact Factor > 2.0
2016 – Present	Reviewed Open Access Springer Journal
	- https://telrp.springeropen.com/reviewer-acknowledgement-list-2016-
	- All journal reviews can be found https://publons.com/researcher/1596215/dilrukshigamage/peer-review/

2016 – Present	Conference Reviews Reviewer for top tier ACM conferences <ul style="list-style-type: none"> - CHI 2018,2019, 2020, 2021 - CSCW 2017, 2019, 2020, - DIS2017, 2018 - UIST 2016,2017 - CSCL2019 - Computer Ed 2019
2018- Present	Reviewer for IEEE Education Society Conference <ul style="list-style-type: none"> - IEEE TALE 2018, 2019, 2020 - IEEE EduCon 2018

PUBLICATIONS

Google Scholar Profile - <https://scholar.google.ca/citations?user=WCvk2EoAAAAJ&hl=en>

2018	Conference proceedings Gamage D , Whiting M , Perera I, Fernando S (2018,December) ," Improving Feedback and Discussion in MOOC Peer Assessment Using Introduced Peers ", in IEEE Region 10 Technology Education Conference (TALE2018), Sydney, Australia
2018	Gamage D , Perera I, Fernando S (2018, April) ,"Increasing Interactivity and Collaborativeness in MOOCs using Facilitated Groups: A Pedagogical Solution to meet 21st century goals", in IEEE Education Conference (EDUCON2018), Tenerife, Spain
2016	Gamage D , Fernando S, Perera I (2016, March) ," MOOCs to provide 21st century skills: Learners Perspective ", in 10th annual International Technology Education and Development Conference, Valencia, Spain
2016	Gamage D , Fernando S, Perera I (2016, March) ," Evaluating effectiveness of MOOCs using empirical tools: learners perspective", in 10th annual International Technology Education and Development Conference, Valencia, Spain
2015	Gamage D , Fernando S, Perera I(2015, April) ,"Effectiveness of eLearning : Grounded theory approach", in IEEE Moratuwa Engineering Research Conference (Mercon2015) Katubedda, Sri Lanka
2015	Gamage D , Fernando S, Perera I (2015, August) ,"Quality of MOOCs: A review of literature on effectiveness and quality aspects ", in 8th IEEE International conference of Ubi-Media Computing, Colombo, Sri Lanka
2015	Gamage D , Fernando S, Perera I (2015, August) ,"A Framework to Analyze effectiveness of eLearning in MOOC: Learners Perspective", in 8th IEEE International conference of Ubi-Media Computing, Colombo, Sri Lanka
2015	Gamage D , Fernando S, Perera I (2015, August) ,"Factors leading to an effective MOOC from participants perspective ", in 8th IEEE International conference of Ubi-Media Computing, Colombo, Sri Lanka
2017	Whiting, M. E., Gamage, D. , Gaikwad, S. N. S., Gilbee, A., Goyal, S., Ballav, A., ... & Sarma, T. S. (2017, February). Crowd Guilds: Worker-led Reputation and Feedback on Crowdsourcing Platforms. In Proceedings of the 2017 ACM

- 2016 Conference on Computer Supported Cooperative Work and Social Computing (pp. 1902-1913). ACM. USA
- 2016 Gaikwad, S. N. S., Morina, D., Ginzberg, A., Mullings, C., Goyal, S., **Gamage, D.**, & Ziulkoski, K. (2016, October). Boomerang: Rebounding the consequences of reputation feedback on crowdsourcing platforms. In Proceedings of the 29th Annual Symposium on User Interface Software and Technology (pp. 625-637). ACM. Japan

Journal Papers

- 2021 **Gamage, D.**, Whiting M, Staubitz T (2021), Peer Reviews in MOOCs: A Systematic Literature Review, Special Issue - Re-imagining Assessment in Online and Distributed Learning, Distance Education)[Impact factor >2.0 Journal Indexed in Web of Science, Scopus] Manuscript Accepted, publication due in April 2021
- 2020 **Gamage, D.**, Fernando, S., & Perera, I.(2020). MOOCs lack interactivity and collaboratives: Evaluating MOOC platform, International Journal of Engineering Pedagogy (iJEP), Vol 10 No 2, (pp. 94-111) [Open Access Journal Indexed in Web of Science, Scopus]
- 2020 **Gamage, D.**, Fernando, S., & Perera, I.(2020). Exploring MOOC user behaviors beyond platforms, International Journal of Emerging Technologies in Learning (iJET), Vol 15 No 8, (pp. 161-179 [Open Access Journal Indexed in Web of Science, Scopus]
- 2014 **Gamage, D.**, Fernando, S., & Perera, I. (2014). Factors affecting to effective eLearning: Learners Perspective. Scientific Research Journal (SCRJ), 2(5), 42-48 [Open Access Journal]

Book Chapters

- 2016 **Gamage, D.**, Fernando, S., & Perera, I. (2016). To MOOC or Not to MOOC, That Is the Problem: A Learner's Perspective. In Revolutionizing Modern Education through Meaningful E-Learning Implementation (pp. 131-148). IGI Global

Short Papers

- 2017 **Gamage, D.**, Whiting, M. E., Rajapakshe, T., Thilakarathne, H., Perera, I., & Fernando, S. (2017, April). Improving Assessment on MOOCs Through Peer Identification and Aligned Incentives. In Proceedings of the Fourth (2017) ACM Conference on Learning@ Scale (pp. 315-318). ACM. USA
- 2015 Gaikwad, S. N., Morina, D., Nistala, R., Agarwal, M., Cossette, A., Bhanu, R., ... **Gamage, D** & Mithal, A. (2015, November). Daemon: A self-governed crowdsourcing marketplace. In Adjunct Proceedings of the 28th Annual ACM Symposium on User Interface Software & Technology (pp. 101-102). ACM. USA
- 2016 **Gamage D**, Fernando S, Perera I (2016, November) ,"What do star rates for MOOCs tell you? An analysis of pedagogy and review rates to identify effective pedagogical model", in 24th International Conference on Computer Education (ICCE2016), IIT, Mumbai, India
- 2014 **Gamage D**, Fernando S, Perera I (2014, November) Effective eLearning through MOOC: Lessons learnt in selecting a MOOC (ICCE 2014), Nara, Japan

Workshop Papers

2020	Kumar, N., Cannanure, V.K., Gamage, D. , Prabhakar, A.S., Sturm, C., Loaiza, C.R., Sable, D., Bhuiyan, M.M. and Moreno Rocha, M.A., (2020, April). HCI Across Borders and Sustainable Development Goals. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI2020), Hawaii, USA
2020	Jain, P., Balkrishan, D., Sarcar, S., Gamage, D. , Tulaskar, R., Shahid, S., Ahmed, N. (2021, November) Teaching HCI in South Asia: Designing inclusive HCI Curriculum, 11th edition of the Indian conference series on Human-Computer Interaction (HCI) Design and Research (IndiaHCI2020), India
2021	Cannanure, V.K., Gamage, D. Sturm, C, Winschiers-Theophilus, H., Maestre, J. F., Karusala, N., Reynolds-Cuéllar, P., Kumar, N. (2021, April). Decolonizing Education in HCI Across Borders. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI2021), Yokohama, Japan
2021	Tedjasaputra, A, Samson,B P S, Ghazali,M., Sari,E, Sarcar,S., Gamage, D., , (2021, April) Asian CHI Symposium: HCI Research from Asia and Asian Context and Cultures, In proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI2021), Yokohama, Japan
2021	Jain,p., Ibtasam,S., Sharma, S., Bhattacharya,N., Tuli, A., Gamage, D., Jain,D.,(2021, April) , From the Margins to the Centre: Defining New Mission and Vision for HCI Research in South Asia, In proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI2021), Yokohama, Japan

SKILLS

- Human Computer Interaction/ User research/ User experience / Design thinking / Interaction Design / Prototype
- Education Technology
- Data Science/ R / Python / Social Network Analysis – Gephi/ Epistemic Analysis -ENA
- Open research practices OSF/ Github/ Jupyter Notebooks
- Quantitative and Qualitative research study design
- Ability to learn new skills under pressure in short time with diverse groups
- Special skills to work and facilitate dynamic teams in online environments while being super productive (90% of work I have done has been online and with multinational groups)

REFERENCE

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