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Senuri Wijenayake

PhD Candidate | Human Computer Interaction Group, University of Melbourne

**May 2013 – Oct 2017**

**EDUCATION**

**Jul 2018 – Present**

**PhD in Computer Science (expected completion in December 2021)**

School of Computing and Information Systems, University of Melbourne, Australia.

**Thesis:** Understanding Dynamics of Online Social Conformity

**Supervised By:** Dr. Jorge Goncalves and Prof. Vassilis Kostakos

**BSc. (Hons) Information Technology**

Faculty of Information Technology, University of Moratuwa, Sri Lanka.

**Highlights:**

* **Gold Medal for the Best Academic Performance** for the 2017 at the BSc. (Hons) IT Examinations.
* **Gold Medal for the Most Outstanding Student of University of Moratuwa** for 2017 for outstanding academic performance, research contribution, volunteer work and extra-curricular activities.

**Sep 2011 – Nov 2015**

**CIMA (Chartered Institute of Management Accountants), UK**

**Courses Completed:** Strategic Management, Financial Strategy, Risk Management, Accounting, Law, Human Resources

**EXPERIENCE**

**Jan 2019 – Present**

**Academic Tutor**

School of Computing and Information Systems, University of Melbourne, Australia.

* Experience conducting both physical and online tutorials for graduate and undergraduate students.
* Received the **Excellence in Tutoring Award** in recognition of the excellent contribution to tutoring in School of Computing and Information Systems in 2019.
* Mentoring a postgraduate [HCI Project (INFO90008)](https://handbook.unimelb.edu.au/subjects/info90008) investigating social conformity in online group chatting environments.
* **Course Modules Tutored:**
  + [Evaluating User Experience (INFO90004)](https://handbook.unimelb.edu.au/2020/subjects/info90004)
  + [Fundamentals of Interaction Design (INFO10003)](https://handbook.unimelb.edu.au/2020/subjects/info10003)
  + Social Computing (INFO90007)
* **Certifications:**
  + [Melbourne Teaching Certificate for Graduate Researchers](https://www.senuriwijenayake.com/files/MTCGR2019.pdf) awarded by University of Melbourne.
  + [Foundations of Teaching and Learning for Graduate Researchers](https://www.senuriwijenayake.com/files/FTLGR2019.pdf) awarded by University of Melbourne.

**Full Stack Developer, Team Lead**

Tracified, 99X Technology, Sri Lanka.

* Based on the concept “Trust Through Traceability”, [Tracified](https://tracified.com/) can be used by vendors of premium products (e.g., organic food, gems) to provide transparency into their product’s journey from its origin to the marketplace ([demo](https://youtu.be/wMzS2Ddu-ro)).
* **Winner of Gold Award** in Retail and Supply Chain Management at the **National Best Quality Software Awards** (NBQSA) Sri Lanka in 2017.
* **Responsibilities:**
* Leading a 20+ team of Developers, UX Engineers and Quality Assurance Engineers and overseeing the scrum activities as the team's Scrum Master.
* Guiding the product engineering process from product designing to deployment and on-site training of clients.
* Communicating with current and potential clients for requirement gathering, customisations and troubleshooting.
* Software development using TypeScript, NodeJs and AngularJs.

**Aug 2017 – Jun 2018**

I am a PhD Candidate in Human-Computer Interaction and Social Computing, primarily investigating how online group settings can be designed accounting for socio-psychological influences. I am passionate about transforming ideas into products and have prior experience leading cross-functional teams with 20+ members, implementing Scrum software management processes, and directly communicating with international clients in product pitches. I also enjoy teaching and mentoring graduate and undergraduate students and conducting seminars to raise awareness of higher education opportunities to students in rural Sri Lanka. I am currently seeking an internship that will provide an opportunity to fulfill my passion in product engineering, with new challenges and rewarding experiences.

**PROFILE**

**Software Engineering Intern**

PicaSix, 99X Technology, Sri Lanka.

* Developed a web-based supply chain management system for PicaSix to combine and align process of complex supply chains between importers, suppliers, production, wholesalers and end-consumers.
* **Responsibilities:**
  + Software development using AngularJs, JavaScript, HTML, CSS and Ruby on Rails.
  + Implementing automated frontend testing using Protractor and compiled technical documentation for the setup.
  + Experience in Scrum activities and communicating with Product Owner and client for requirement gathering, customisations and technical walk-throughs.

**Mar 2016 – Sep 2016**

**Undergraduate Developer**

E-kilder, Embla Software Innovations, Sri Lanka.

* Developed an interactive website to digitise handwritten information of Norwegian church books through crowdsourcing and use that information to enable users to discover and graphically illustrate their family trees.
* **Responsibilities:**
  + Full stack software development using HTML, CSS, JavaScript, C#, Entity Framework and SQL Server.
  + Communicating with the Product Owner and the Business Analyst for requirement gathering, customisations and technical walk-throughs.

**Aug 2014 – May 2015**

**PUBLICATIONS**

**Bots for Research: Minimising the Experimenter Effect**

**S. Wijenayake**, N. van Berkel, J. Goncalves

International Workshop on Detection and Design for Cognitive Biases in People and Computing Systems (**CHI’20**). [[pdf]](https://www.senuriwijenayake.com/papers/2020/CHI20.pdf)

**Impact of Contextual and Personal Determinants on Online Social Conformity**

**S. Wijenayake**, N. van Berkel, V. Kostakos, J. Goncalves

**Computers in Human Behaviour**, 108: 106302. [[pdf]](https://www.senuriwijenayake.com/papers/2020/CHB20.pdf)

**Quantifying the Effect of Social Presence on Online Social Conformity**

**S. Wijenayake**, N. van Berkel, V. Kostakos, J. Goncalves

Proceedings of the ACM on Human-Computer Interaction, 4 (**CSCW**), 55:1 - 55:22. [[pdf]](https://www.senuriwijenayake.com/papers/2020/CSCW20.pdf)

**CSCW 2020**

**CHI 2020**

**CHB 2020**

**Measuring the Effects of Gender on Online Social Conformity**

**S. Wijenayake**, N. van Berkel, V. Kostakos, J. Goncalves

Proceedings of the ACM on Human-Computer Interaction, 3 (**CSCW**), 145:1 - 145:24. [[pdf]](https://www.senuriwijenayake.com/papers/2019/CSCW19.pdf)

**CSCW 2019**

**CSCW 2019**

**Crowdsourcing Perceptions of Fair Predictors for Machine Learning: A Recidivism Case Study**

N. van Berkel, J. Goncalves, D. Hettiachchi, **S. Wijenayake**, R.M. Kelly, V. Kostakos

Proceedings of the ACM on Human-Computer Interaction, 3 (**CSCW**), 28:1 – 28:22. [[pdf]](https://www.senuriwijenayake.com/papers/2019/CSCW19NVB.pdf)

**UbiComp 2018**

**Improving Accuracy in Mobile Human Contributions: An Overview**

N. van Berkel, M. Budde, **S. Wijenayake,** J. Goncalves

Adjunct Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp’18** Adj.), 594 – 599. [[pdf]](https://www.senuriwijenayake.com/papers/2018/UBI18.pdf)

**PACIS 2018**

**Predicting Tie Strength between Facebook Friends to Improve Accuracy in Travel Recommendation Systems**

**S. Wijenayake**, S. Ganiachchi, J. Wijekoon, S. Ahangama

Proceedings of the Pacific Asia Conference on Information Systems 2018 (**PACIS’18**), 246:1 - 246:24. [[pdf]](https://www.senuriwijenayake.com/papers/2018/PACIS18.pdf)

**PAKDD 2018**

**A Decision Tree Approach to Predicting Recidivism in Domestic Violence**

**S. Wijenayake**, T. Graham, P. Christen

Proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (**PAKDD’18**), pp. 3 - 15. Springer, Cham. [[pdf]](https://www.senuriwijenayake.com/papers/2018/BDASC18.pdf)

**ICTER 2017**

**A Context Aware & Personalized Multiple Location Trip Planner Using Facebook Check-ins of a User**

**S. Wijenayake**, S. Ganiachchi, J. Wijekoon, S. Ahangama

Proceedings of the 17th International Conference on Advances in ICT for Emerging Regions (**ICTer’17**). [[pdf]](https://www.senuriwijenayake.com/papers/2017/ICTER17.pdf)

**ICNC-FSKD 2017**

**Creation of Semantic Location Profiles using Bayes, Rule-Based, Trees and Meta Classification Approaches**

S. Ganiachchi, **S. Wijenayake**, J. Wijekoon, S. Ahangama

Proceedings of the 13th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (**ICNC-FSKD 2017**), 1604 – 1609. [[pdf]](https://www.senuriwijenayake.com/papers/2017/FSKD17.pdf)

**ACADEMIC SERVICES**

* **Journal & Conference Reviewing**
  + CHI, CSCW, Computers in Human Behavior, INTERACT, OzCHI.
* **Conference Organisation**
  + **Student Volunteer** for ACM Conference on Computer-Supported Cooperative Work and Social Computing ([CSCW’20](https://cscw.acm.org/2020/)).
  + **Social Media Co-chair** for Australian Conference on Human-Computer Interaction ([OzCHI 2020](http://www.ozchi.org/2020/)).
  + **Student Volunteer** at CIS Doctoral Colloquium 2018 organised by the University of Melbourne.

**AWARDS & SCHOLARSHIPS**

* **Awards**
  + **Excellence in Tutoring Award** offered by the School of Computing and Information Systems, University of Melbourne in recognition for an excellent contribution to tutoring in 2019.
* **Best Paper Award** at the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD’18) for paper titled “*A Decision Tree Approach to Predicting Recidivism in Domestic Violence*” [[pdf]](https://www.senuriwijenayake.com/papers/2018/BDASC18.pdf).
* **Gold Award** in Retail and Supply Chain Management at the **National Best Quality Software Awards** (NBQSA) Sri Lanka in 2017, for software project “[Tracified](https://tracified.com/)”.
* **Merit Award** in Culture and Tourism at the **e-Swabhimani’17** organised by ICTA Sri Lanka in 2017, for undergraduate research project “TravelSL”.
* **Scholarships**
* **Rowden White Scholarship** awarded based on academic merit by University of Melbourne for year 2018.
* **Melbourne Research Scholarship** offered by University of Melbourne (2018 – present).
* **Conference Travel Scholarship** offered by the Melbourne School of Engineering & School of Computing and Information Systems (2019, 2020).

**VOLUNTARY WORK**

**Committee Member (Media & Communications)**

Sri Lankan Graduates’ Society, University of Melbourne, Australia.

**May 2019 - Present**

**Editor in Chief – FIT Chronicle**

Faculty of Information Technology, University of Moratuwa, Sri Lanka

* FIT Chronicle - the **academic magazine of the Faculty of IT**, University of Moratuwa - is the outcome of combined effort from the faculty and students, where I had the privilege of working together with an extremely committed editorial team, to revamp the magazine with a dash of life and pride.
* Under my leadership, the FIT Chronicle brought the spotlight onto **faculty events, academic programs, student achievements, student extracurricular activities** with a new addition of a “students’ corner” to exhibit composing talents and artistic insight of FIT students.

**See FIT Chronicle:** [**2015 Edition**](https://www.senuriwijenayake.com/files/FIT2015.pdf)[**2016 Edition**](https://www.senuriwijenayake.com/files/FIT2016.pdf)

**Jan 2015 – Aug 2017**

**Motivational Speaker & Mentor**

* Conducting online seminars to undergraduate students at University of Moratuwa on international opportunities for higher education (2018 - present).
* Conducting seminars to rural schools in Sri Lanka on higher education opportunities (2015 - 2017).
* Mentoring high school students at Visakha Vidyalaya, Sri Lanka on their GCE Advanced Level IT Projects in 2017.

**May 2015 - Present**