

CURRICULUM VITAE

April 26th, 2021

NAME:

Plinio Pelegrini Morita
Associate Professor
J.W. Graham Information Technology Emerging Leader Chair in Applied Health Informatics

CONTACT INFORMATION:

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DEGREES RECEIVED:

<u>Degree</u>	<u>Institution</u>	<u>Years</u>
Ph.D., Systems Design Engineering, Focus in Human Factors Engineering	University of Waterloo, Waterloo, Ontario, Canada	2009 – 2014
M.Sc., Biomedical Engineering	University of Campinas, Campinas, São Paulo, Brazil	2006 – 2009
B.Eng., Electrical Engineering, Major in Biomedical Engineering	University of Campinas, Campinas, São Paulo, Brazil	2002 – 2006

EMPLOYMENT HISTORY:

<u>Date</u>	<u>Position</u>	<u>Institution</u>
2017 to Present	Research Scientist	Research Institute for Aging, University of Waterloo, Waterloo, ON
2021 to Present	Associate Professor	School of Public Health and Health Systems, University of Waterloo, Waterloo, ON
2016 to 2021	Assistant Professor	School of Public Health and Health Systems, University of Waterloo, Waterloo, ON
2016 to Present	J.W. Graham Information Technology Emerging Leader Chair in Applied Health Informatics	School of Public Health and Health Systems, University of Waterloo, Waterloo, ON

<u>Date</u>	<u>Position</u>	<u>Institution</u>
2016 to Present	Assistant Professor (Cross Appointment)	Systems Design Engineering, University of Waterloo, Waterloo, ON
2016 to Present	Assistant Professor (Status-Only)	Institute of Health Policy, Management, and Evaluation, University of Toronto, Toronto, ON
2016 to Present	Research Scientist	eHealth Innovation, Techna Institute, University Health Network, Toronto, ON
2016	Research Lead	Healthcare Human Factors, Techna Institute, University Health Network, Toronto, ON
2014 to 2016	Post-Doctoral Fellow	Healthcare Human Factors and Centre for Global eHealth Innovation, Techna Institute, University Health Network, Toronto, ON.
2014 to 2016	Lecturer	Institute of Health Policy, Management, and Evaluation, University of Toronto, Toronto, ON
2013	Visiting Scholar	SawaragiLab - Design-Systems Laboratory, Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University, Kyoto, Japan
2012 to 2014	Sessional Lecturer	Department of Systems Design Engineering, University of Waterloo, Waterloo, ON
2007	Academic Intern in Health Technology Assessment	Agencia de Evaluación de Tecnologías Sanitarias, Instituto de Salud Carlos III – Ministerio de Sanidad y Consumo – Gobierno de España, Madrid, Madrid, Spain

ACADEMIC AWARDS AND DISTINCTIONS:

<u>Date</u>	<u>Agency</u>	<u>Award</u>
2021	Government of Ontario	Early Researcher Award (\$100,000)
2018	Public Health agency of Canada (PHAC) and Canadian Institutes of Health Research (CIHR)	Healthy Behaviour Data Challenge (\$35,000)
2016 to 2021	University of Waterloo	J.W. Graham Information Technology Emerging Leader Chair in Applied Health Informatics (\$85,000)

<u>Date</u>	<u>Agency</u>	<u>Award</u>
2015	Emerald Group Publishing Ltd., UK	2015 Emerald Literati Network Awards for Excellence
2013	Japan Society for the Promotion of Science, Japan	JSPS Short Term Post-Doctoral Fellowship (\$7,650)
2013	University of Waterloo, Canada	David Johnston International Experience Award (\$2,500)
2011	Sandford Fleming Foundation, University of Waterloo, Canada	Sir Sandford Fleming Teaching Assistantship Excellence Award
2011 to 2014	NSERC, Canada	Vanier Canada Graduate Scholarship (\$150,000)
2011 and 2012	OSAP, Canada	Ontario Graduate Scholarship (\$30,000)
2006 to 2009	University of Campinas, Brazil	CAPES Master Studies Scholarship (\$15,000)
2007	Instituto de Salud Carlos III, Spain	Santander Cultural Development Award (\$7,500)
2006	University of Campinas, Brazil	Early Graduation Distinction
2005 to 2006	Agencia Nacional de Vigilancia Sanitaria, University of Campinas, Brazil	Scientific Initiation Award (\$3,000)

SCHOLARLY AND PROFESSIONAL ACTIVITIES:

a) Journal Editorial Boards and Referee:

2020 to Present	Guest Editor	Information - Designing Digital Health Technologies as Persuasive Technologies
2020 to Present	Editor and Reviewer	Frontiers in Blockchain
2014 to Present	Editor and Reviewer	Journal of Medical Internet Research – Human Factors
2014 to Present	Reviewer	Journal of Medical Internet Research – mHealth and uHealth
2014 to Present	Reviewer	Journal of Medical Internet Research

	2019 to Present	Reviewer	International Journal of Environmental Research and Public Health
	2019 to Present	Reviewer	International Journal of Environmental Research and Public Health
	2019 to Present	Reviewer	Innovation and Research in Biomedical Engineering
	2013 to Present	Reviewer	Theoretical Issues in Ergonomics Science Journal
	2013 to Present	Reviewer	Team Performance Management Journal
	2013 to Present	Reviewer	Institute of Electrical and Electronics Engineers (IEEE) Transactions in Human-Machine Systems
	2010 to Present	Reviewer	Human Factors Inter-University Workshop
	2012	Reviewer	Institute of Electrical and Electronics Engineers (IEEE) International Conference on Systems, Man, and Cybernetics
	2010 to Present	Reviewer	Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting
	2010 to Present	Reviewer	Ergonomics Journal
b)	Conference Organization:		
	2020	Digital Health Track Chair	HFES Healthcare Symposium 1000 participants – International Conference
	2018	Organizing Chair	Persuasive Technology 150 participants – International Conference
c)	Grant Reviewer:		
	2020 to Present	Grant Reviewer	Canadian Institutes of Health Research (CIHR) Project Grant Reviewer (Health Services Evaluation & Interventions Research – HS1; Public, Community, & Population Health – PH1)
	2019 to Present	Grant Reviewer	National Science and Engineering Research Council (NSERC Discovery)
	2019 to Present	Grant Reviewer	MITACS (MITACS Accelerate and Elevate)
	2019	Grant Reviewer	Assistance Publique - Hôpitaux de Paris (APHP)
	2017 to 2018	Grant Reviewer	Ministry of Research, Innovation and Science (Early Researcher Awards – ERA)
	2016	Grant Reviewer	MRC Network of Hubs for Trials Methodology Research
d)	Broader Community:		
	2020 to Present	Proposal Reviewer	Canadian Longitudinal Study on Aging Data and Sample Access Committee
	2019 to Present	Faculty Advisor	HFES University of Waterloo Student Chapter

2017 to 2019	eHealth and Big Data Advisor	Youth Innovation Challenge for Adolescent Health in Mongolia, UNICEF Mongolia
2016 to Present	eHealth Technology Advisor	UNICEF Mongolia – Adolescent Sexual and Mental Health Initiative
2016 to Present	Big Data and Research Advisor	UNICEF Mongolia – Air Pollution and Health Initiative
2016	Consultant and Advisor	Evaluation of the Yukon Telehealth System, Mental Health Services, Yukon Government

e) **Professional Affiliations and Societies:**

2018 to Present	Member	Canadian Public Health Association
2018 to Present	Member	Ontario Public Health Association
2017 to Present	Member	International Society for Disease Surveillance
2017 to Present	Member	Canadian Society for International Health
2015 to Present	Professional Engineer	Professional Engineers of Ontario
2006 to Present	Professional Engineer	Conselho Regional de Engenharia e Agronomia do Estado de São Paulo
2004 to Present	Member	Institute of Electrical and Electronics Engineers (IEEE)
2016 to Present	Member	ACM & SIGCHI
2016 to Present	Member	Digital Health Canada
2009 to Present	Member	Human Factors and Ergonomics Society

PUBLICATIONS:

a) **Refereed Journals:**

1. *Velmovitsky, P.E., *Bublitz, F.M., ***Morita, P.P.** Blockchain Use Cases in Healthcare - An Industry Overview. *Journal of Medical Internet Research Medical Informatics*, 2021, In Press. (Senior author; JIF = 4.945; leading digital health journal)
(<https://s3.ca-central-1.amazonaws.com/assets.jmir.org/assets/preprints/preprint-20713-submitted.pdf>)

2. Paganelli, A.I., *Velmovitsky, P.E., *Miranda, P.A.D.S.E.S., Branco, A., Alencar, P., Cowan, D., Endler, M., and **Morita, P.P.** (2021). A Conceptual IoT-based Early-Warning Architecture for Remote Monitoring of COVID-19 Patients in Wards and at Home. *Internet of Things*, 2021, <https://doi.org/10.1016/j.iot.2021.100399>.
(<https://www.sciencedirect.com/science/article/pii/S2542660521000433?via%3Dihub>)
(Senior author; leading IoT journal)
3. Carrillo, D., Nardelli, P.H.J., Purnaras, E., **Morita, P.P.**, Rodriguez, D.Z., Dzaferagic, M., Siljak, H., Jung, A., Hebert-Dufresne, L., Ulaah, I.M.M., Fraidenraich, G., and Popovski, P. Containing Future Epidemics with Trustworthy Federated Systems for Ubiquitous Warning and Response. *Frontiers in Communications and Networks IoT and Sensor Networks*, 2021, In Press.
(Author leading the conceptualization of the platform and the alignment with public health practices; journal dedicated to cutting-edge research findings encompassing the Internet of Things, Sensors and the emerging variants of Internet of Skills)
4. Stevens, N., *Kiwon, F., **Morita, P.P.**, Sen., A., and Steiner, S. Estimating the Effects of Population Mobility on Daily COVID-19 Cases Using Google Data: Evidence from Ontario. *Canadian Public Policy*, 2021, In Press.
(Author responsible for the assessment of public health implications and manuscript preparation; JIF = n/a; online journal of Canadian Health Policy Institute (CHPI))
5. *Velmovitsky, P., *Bevilacqua, T., Alencar, P., Cowan, D., and **Morita, P.P.** Convergence of Precision Medicine and Public Health into Precision Public Health: Towards a Big Data Perspective. *Frontiers in Public Health*, 2021, 9, 561873.
(<https://www.frontiersin.org/articles/10.3389/fpubh.2021.561873/full>)
(Senior author; JIF = 2.031; multidisciplinary open-access journal at the forefront of disseminating and communicating scientific knowledge and impactful discoveries)
6. Hall, P., Fong, G., Liu-Ambrose, T., Heckman, G., Oremus, M., Sakib, N.*, Butt, Z., Ayaz, H., Jandu, N., and **Morita, P.P.** Biobehavioral Aspects of the COVID-19 Pandemic: A Review and Research Agenda. *Psychosomatic Medicine*, 2021, 10.1097/PSY.0000000000000932.
(<https://pubmed.ncbi.nlm.nih.gov/33790201/>)
(Author responsible for the wearable and health informatics component of the project, JIF = 3.97; leading journal in psychosomatic medicine)
7. *Velmovitsky, P., *Miranda, P., Vaillancourt, H., Donovska, T., Teague, J., and **Morita, P.P.** A Blockchain-Based Consent Platform for Active Assisted Living: Modeling Study and Conceptual Framework. *Journal of Medical Internet Research*, 2020, 22(12), e20832.
(<https://www.jmir.org/2020/12/e20832>)
(Senior author; JIF = 4.945; leading digital health journal)
8. *Neudorf, B., Giangregorio, L., and **Morita, P.P.** The Usability of an Electronic Medical Records (EMR)-integrated Physical Activity Counselling Tool for Primary Care. *Ergonomics in Design*, 2020, December, 1-10.
(<https://doi.org/10.1177%2F1064804620982140>)
(Author responsible for research direction, expertise in user-centered design, senior author; JIF = 4.292; leading health informatics journal)

9. **Morita, P.P.**, *Rocha, A., Shaker, G., Lee, D. Wei, J., *Fong, B., Thatte, A., Karimi, A., Xu, L., Ma, A., Wong, A., and Boger, J. Comparative Analysis of Gait Speed Estimation Using Wideband and Narrowband Radars, Thermal Camera, and Motion Tracking Suit Technologies. Journal of Healthcare Informatics Research, 2020, 1-23.
(<https://doi.org/10.1007/s41666-020-00071-7>)
(First author; JIF = 2.87; leading journal in health informatics)
10. *Sahu, K.S., *Oetomo, A., and **Morita, P.P.** Enabling Remote Patient Monitoring Through the Use of Smart Thermostat Data in Canada: Exploratory Study. Journal of Medical Internet Research mHealth and uHealth, 2020, 8(11), e21016.
(<https://mhealth.jmir.org/2020/11/e21016a>)
(Senior author; JIF = 4.301; leading journal in mobile health technology)
11. *Jalali, N., *Sahu, K., *Oetomo, A., and **Morita, P.P.** Understanding User Behavior Through the Use of Unsupervised Anomaly Detection: Proof of Concept Using Internet of Things Smart Home Thermostat Data for Improving Public Health Surveillance. Journal of Medical Internet Research mHealth and uHealth, 2020, 8(11), e21209.
(<https://mhealth.jmir.org/2020/11/e21209>)
(Senior author; JIF = 4.301; leading journal in mobile health technology)
12. *Fadrique L., *Rahman D., Vaillancourt H., Boissonneault P., Donovska T., and **Morita, P.P.** Policies, Guidelines, and Standards for Ambient Assisted Living (AAL) Data Exchange: An Overview. Journal of Medical Internet Research mHealth and uHealth, 2020, 8(6), e15923.
(<https://mhealth.jmir.org/2020/6/e15923/>)
(Senior author; JIF = 4.301; leading journal in mobile health technology)
13. *Yang, Y., Chen, H.H., Qazi, H., and **Morita, P.P.** Intervention and Evaluation of Mobile Health Technologies in Management of Patients Undergoing Chronic Dialysis: Scoping Review. Journal of Medical Internet Research mHealth and uHealth, 2020, 8(4), e15549.
(<https://mhealth.jmir.org/2020/4/e15549/>)
(Senior author; JIF = 4.301; leading journal in mobile health technology)
14. *Sakib, M.N., Butt, Z.A., **Morita, P.P.**, Fong, G.T., and Hall, P.A. Considerations for an Individual-Level Population Notification System for Pandemic Response: A Review and Prototype. Journal of Medical Internet Research, 2020, 22(6), e19930.
(<https://www.jmir.org/2020/6/e19930/>)
(Author responsible for the design of the notification system, project conceptualization, and manuscript preparation; JIF = 4.945; leading digital health journal)
15. Moradian, S., Krzynakowski, M., Maguire, R., Kukreti, V., Amir, E., **Morita, P.P.**, Liu, G., and Howell, D. A Feasibility Randomized Controlled Trial of Remote Symptom Chemotherapy Toxicity Monitoring Using the Canadian Adapted Advanced Symptom Management System (ASyMS-Can): A Study Protocol. BMJ Open, 2020, 10(6), e035648
(<https://dx.doi.org/10.1136%2Fbmjopen-2019-035648>)
(Author responsible for the development of the assessment protocol and manuscript preparation; JIF = 2.376; medical journal addressing research questions in clinical medicine, public health and epidemiology)

16. *Koch, M., Stolee, P., MacNeil, M., Elliott, Jacobi, **Morita, P.P.**, Kuspinar, A., Juzwishin, D. Innovation Processes for Ageing-related Health Technologies. Healthcare Management Forum, 2020, 1-9.
(<https://doi.org/10.1177%2F0840470420936715>)
(Author supporting manuscript preparation and conceptualization of the project; JIF = 0.78; official journal of the Canadian College of Health Leaders)
17. *Cadoret, D., *Kailas, T., *Velmovitsky, P.E., **Morita, P.P.**, and Igboeli, O. Implementation of a Blockchain System in British Columbia's Healthcare Data Management. Journal of Medical Internet Research, 2020, 22(10), e20897.
(<https://www.jmir.org/2020/10/e20897>)
(Senior author; JIF = 3.188; journal with focus on clinical informatics, big data in health and health care, decision support for health professionals)
18. *Bublitz, F.M., *Sahota, N.K., *Oetomo, A., *Fadrique, L.X., and **Morita, P.P.** Ambient assisted living reference architectures: Scoping review protocol. BMJ Open, 2020, 10, e033758.
(<https://bmjopen.bmj.com/content/10/10/e033758>)
(Senior author; JIF = 2.376; medical journal addressing research questions in clinical medicine, public health and epidemiology)
19. Papasideris, M. *, Safati, A., Ayaz, H., **Morita, P.P.**, and Hall, P. Examining the Relationship Between Adolescent Health Behaviors, Brain Health, and Academic Achievement using fNIRS. NeuroImage, 2021, Submitted.
(Author responsible for the wearable and health informatics component of the project, JIF = 5.91; leading journal in neuroimaging)
20. *Oetomo, A., *Velmovitsky, P.E., *Bublitz, F.M., *Bevilacqua, T., *Sahu, K.S., and **Morita, P.P.** Human Factors and Artificial Intelligence - How can we achieve AI for social good?. Journal of Medical Internet Research Human Factors, 2020, Submitted.
(Senior author; JIF = 4.945; leading digital health journal)
21. *Oyibo, K. and **Morita, P.P.** Designing Better Exposure Notification Apps: The Role of Persuasive Design. JMIR Public Health and Surveillance, 2021, Submitted.
(Senior author; JIF = 4.945; leading public health journal)
22. *Jalali, N., *Sahu, K.S., *Oetomo, A., and **Morita, P.P.** Utilization of smart thermostat data at the population level to identify sleep parameters and time spent at home. JMIR mHealth and uHealth, 2021, Submitted.
(Senior author; JIF = 4.945; leading digital health journal)
23. *Nagpal, M., Barbaric, A., Sherifali, D., **Morita, P.P.**, Cafazzo, J.A. Patient-generated health data analytics on ambulatory behaviours of people living with T2D: A Scoping Review. JMIR Diabetes, 2021, Submitted.
(Senior author; JIF = 4.945; leading digital health journal)
24. *Oyibo, K., *Sahu, K.S., *Oetomo, A., and **Morita, P.P.** Factors that Influence the Adoption of Contact Tracing Applications: A Protocol for a Systematic Review. JMIR Research Protocols, 2021, Submitted.
(Senior author; JIF = 4.945; leading digital health journal)

25. Xavier, C.V., *Abedi, H., Boger, J., **Morita, P.P.**, Wong, A., and Shaker, G. 2D-Multiple Signal Processing Approach to Human Orientation Monitoring Using Millimeter-wave FMCW Radar. Journal of Computational Vision and Imaging Systems, 2019, 5(1), 1-2.
(<https://openjournals.uwaterloo.ca/index.php/vsl/article/download/1650/2018>)
(Author responsible for project conceptualization and manuscript preparation; JIF = n/a; computer vision and AI journal)
26. *Abedi, H., Magnier, C. Boger, J., **Morita, P.P.**, Wong, A., and Shaker, G. Integration of Random Forests and MM-Wave FMCW Radar Technology for Gait Recognition. Journal of Computational Vision and Imaging Systems, 2019, 5(1), 1-2.
(<https://openjournals.uwaterloo.ca/index.php/vsl/article/download/1652/2019>)
(Author responsible for project conceptualization and manuscript preparation; JIF = n/a; computer vision and AI journal)
27. *Abedi, H., Shaker, G., Boger, J., **Morita, P.P.**, and Wong, A. Use of Millimeter Wave FMCW Radar to Capture Gait Parameters. American Journal of Biomedical Science & Research, 2019, 6(2), 122-123.
(<https://biomedgrid.com/pdf/AJBSR.MS.ID.001009.pdf>)
(Author responsible for project conceptualization and manuscript preparation; JIF = n/a; journal focusing on bringing attention to the importance of technology in the field of human sciences)
28. Seto, E., Smith, D., Jaques. M., and **Morita, P.P.** Opportunities and Challenges of Telehealth in Remote Communities: A Case Study of the Yukon Telehealth System. Journal of Medical Internet Research Medical Informatics, 2019, 7(4), e11353.
(<https://medinform.jmir.org/2019/4/e11353/>)
(Senior author; JIF = 3.188; leading journal in health informatics)
29. Seto, E., **Morita, P.P.**, *Tomkun, J., *Lee, T.M., Ross, H. Reid-Haughian, C., Kaboff, A., Mulholland, D., and Cafazzo, J.A. Challenges and barriers to the deployment of an eHealth solution in a homecare nursing model. Journal of Medical Internet Research Medical Informatics, 2019, 7(3), e11722.
(<https://medinform.jmir.org/2019/3/e11722/>)
(Author responsible for data analysis and manuscript preparation; JIF = 3.188; leading journal in health informatics)
30. **Morita, P.P.**, Yeung, M.S., Ferrone, M., Taite, A.K., Madeley, C., Lavigne, A.S., To, T., Loughheed, M.D., Gupta, S., Day, A.G., Cafazzo, J.A., and Licskai, C. The design, development, and utilization of breathe: A patient-centered mHealth system that supports asthma self-management. Journal of Medical Internet Research mHealth and uHealth, 2019, 7(1), e10956
(<https://mhealth.jmir.org/2019/1/e10956/>)
(First author; JIF = 4.301; leading journal in mobile health technology)

31. *Alizadeh M., Shaker, G., *Almeida, J.C.M., **Morita, P.P.**, and Safavi-Naeini, S. Remote monitoring of human vital signs using mm-wave FMCW radar. Institute of Electrical and Electronics Engineers Access, 2019, 7, 54958-54968.
(<https://ieeexplore.ieee.org/document/8695699>)
(Author responsible for study design, sensor implementation, manuscript preparation, and project direction; JIF = 4.098; multidisciplinary open access journal)
32. *Pham, Q., Shaw, J., **Morita, P.P.**, Seto, E., Stintson, J.N., and Cafazzo, J.A. The Service of Research Analytics to Optimize Digital Health Evidence Generation: Multilevel Case Study. Journal of Medical Internet Research, 2019, 21(11), e14849.
(<https://www.jmir.org/2019/11/e14849/>)
(Author responsible for project direction and manuscript preparation; JIF = 4.945; leading digital health journal)
33. *Bublitz, F.M., *Oetomo, A., *Sahu, K.S., *Kuang, A., *Fadrique, L.X., *Velmovitsky, P.E., Nobrega, R.M., and **Morita, P.P.** Disruptive Technologies for Environment and Health Research: An Overview of Artificial Intelligence, Blockchain, and Internet of Things. International Journal of Environmental Research and Public Health, 2019, 16(20), 3847.
(<https://www.mdpi.com/1660-4601/16/20/3847>)
(Senior author; JIF = 2.468; journal focused on the interdisciplinary area of environmental health sciences and public health)
34. *Shier, A.P., **Morita, P.P.**, Dickie, C., Islam, M., Burns, C.M., and Cafazzo, J.A. Design and Evaluation of a Safety-Centered User Interface for Radiation Therapy. Practical Radiation Oncology, 2018, 8(5), e346-e354.
(<https://doi.org/10.1016/j.prro.2018.01.009>)
(Author responsible for project direction and manuscript preparation; JIF = 2.794; official journal of the American Society for Radiation Oncology (ASTRO))
35. **Morita, P.P.**, *Huynh, K., *Zakir, A., Cafazzo, J.A., McQuillan, R.F., Bargman, J.M., and Chan, C.T.M. Supporting the Establishment of New Home Dialysis Programs Through the Explore Home Dialysis Program. Kidney International Reports, 2018, 4(2), 293-300.
(<https://doi.org/10.1016/j.ekir.2018.10.019>)
(First author; JIF = n/a; official journal of the International Society of Nephrology)
36. *Pham, Q., Graham, G., Carrion, C., **Morita, P.P.**, Seto, E., Stinson, J.N., and Cafazzo, J.A. A library of analytic indicators to measure effective engagement with consumer mHealth apps for chronic conditions. Journal of Medical Internet Research mHealth and uHealth, 2018, 7(1), e11941.
(<https://mhealth.jmir.org/2019/1/e11941/>)
(Author responsible for project direction, expertise in data usage analytics, and manuscript preparation; JIF = 4.301; leading journal in mobile health technology)

37. *Ng, D., McMurray, J., Wallace, J., **Morita, P.P.** What Is Being Used, and Who Is Using it: Barriers to the Adoption of Smartphone Patient Experience Surveys. Journal of Medical Internet Research Formative Research, 2018, 3(1), e9922.
(<https://formative.jmir.org/2019/1/e9922/>)
(Author responsible for project direction and manuscript preparation; JIF = 4.945; leading digital health journal)
38. *Moradian, S., Krzynakowski, M., Maguire, R., **Morita, P.P.**, Kukreti, V., Avery, J., Liu, G., Cafazzo, J., and Howell, D. Usability evaluation of a mobile phone- based system for remote monitoring and management of chemotherapy-related side effects in Canadian cancer patients: Mixed Method Study. Journal of Medical Internet Research Cancer, 2018, 4(2), e10932.
(<https://doi.org/10.2196/10932>)
(Author responsible for project direction, expertise in user-centered design, and manuscript preparation; JIF = 4.945; leading digital health journal)
39. *Pham, Q., Graham, G., Lallo, C., Seto, E., **Morita, P.P.**, Stinson, J.N., and Cafazzo, J.A. An Analytics Platform to Evaluate Effective Engagement With Pediatric Mobile Health Apps: Design, Development, and Formative Evaluation. Journal of Medical Internet Research mHealth and uHealth, 2018, 6(12), e11447.
(<https://doi.org/10.2196/11447>)
(Author responsible for project direction, expertise in data usage analytics, and manuscript preparation; JIF = 4.301; leading journal in mobile health technology)
40. **Morita, P.P.**, Weinstein, P.B., Flewwelling, C.J., Bañez, C.A., Chiu, T.A., Iannuzzi, M., Patel A.H., Shier, A.P., and Cafazzo, J.A. The usability of ventilators: A comparative evaluation of use safety and user experience. Critical Care, 2016, 20(263), 1-9.
(<https://ccforum.biomedcentral.com/articles/10.1186/s13054-016-1431-1>)
(First author; JIF = 7.442; leading journal on the intensive care field)
41. Amaral, A.C.K., Taneva, S., **Morita, P.P.**, and Lane-Fall, M. Who is responsible for mitigating work fatigue of critical care clinicians – the individual or the system? Annals of the American Thoracic Society, 2016, 13(9), 1453-1455.
(http://www.atsjournals.org/doi/abs/10.1513/AnnalsATS.201606-517ED?journalCode=annalsats#.V_PkQZMrKV4)
(Author responsible for project direction, expertise in data user-centered design, and manuscript preparation; JIF = 4.026; official medical journal of the American Thoracic Society)
42. **Morita, P.P.**, and Cafazzo, J.A. Challenges and Paradoxes of Human Factors in Health Technology Design. Journal of Medical Internet Research Human Factors, 2016, 3(1), e11.
(<http://humanfactors.jmir.org/2016/1/e11/>)
(First author; JIF = 4.945; leading digital health and human factors journal)

43. Weinstein, P., Kurahashi, A., Jamieson, T., Stinson, J.N., Cafazzo, J.A., Lokuge, B., **Morita, P.P.**, Cohen, E., Rapoport, A., Bezzak, A., and Hussain, A. In the Loop: The Organization of Team-Based Communication in a Patient-Centered Clinical Collaboration System. Journal of Medical Internet Research Journal of Human Factors, 2016, 3(1), e12.
(<http://humanfactors.jmir.org/2016/1/e12/>)
(Author responsible for project direction, expertise in user-centered design, and manuscript preparation; JIF = 4.945; leading digital health journal)
44. *Goyal, S., **Morita, P.P.**, Picton, P., Zbib, A., Seto, E., and Cafazzo, J.A. Uptake of a Consumer-Focused mHealth Application for the Assessment and Prevention of Heart Disease. Journal of Medical Internet Research mHealth uHealth, 2016, 4(1), e32.
(<http://mhealth.jmir.org/2016/1/e32/>)
(Author responsible for project direction, expertise in user-centered design, and manuscript preparation; JIF = 4.301; leading journal in mobile health technology)
45. *Uddin, A.A., **Morita, P.P.**, Tallevi, K., Armour, K., Li, J., Nolan, R.P., and Cafazzo, J.A. Development of a mHealth System for Behavioural Neurcardiac Training: A Usability Study. Journal of Medical Internet Research mHealth uHealth, 2016, 4(2), e45.
(<http://mhealth.jmir.org/2016/2/e45/>)
(Author responsible for project direction, expertise in user-centered design, and manuscript preparation; JIF = 4.301; leading journal in mobile health technology)
46. Herlihey, T.A., Gelmi, S., Flewwelling, C.J., Hall, T.N.T., Bañez, C., **Morita, P.P.**, Beverley, P., Cafazzo, J.A., and Hota, S. On Selecting Personal Protective Equipment for Infectious Disease Preparedness: A Human Factors Evaluation. Infection Control & Hospital Epidemiology, 2016, 37(9), 1022-1028.
(<http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=10364721&fileId=S0899823X16001240>)
(Author responsible for project direction, expertise in user-centered design, and manuscript preparation; JIF = 3.084; peer-reviewed medical journal published by Cambridge University Press)
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b) **Refereed Conference Proceedings:**

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2. *Mohamed, Z., Hegazi, T., *Oetomo, A., **Morita, P.P.** Using Wearables to Monitor and Mitigate Workers’ Fatigue, Canadian Society of Civil Engineers (CSCE) Annual Conference, 2021, In Press.
3. Alves, P.H., *Miranda, P.A., Frajhof, I.Z., Souza, C., Lopes, H., and **Morita, P.P.** Towards an Ontology for Dynamic Consent: The Data Privacy Challenge, 34th IEEE International Symposium on Computer-Based Medical Systems, 2021, Submitted.
4. *Sahu, K.S.*, *Oetomo, A., *Jalali ,N., and **Morita, P.P.** Population-level estimation of timing, duration and quality of sleep in Canada: A smart thermostat based exploratory study. The Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 2021, 64(1), 2130-2134.
5. *Lee, D., *Fong, B., **Morita, P.P.**, Boger, J., Melek, W., Shaker, G. Imaging of Walking Human Behind the Wall Using Impulse Radar. 2020 IEEE AP-S Symposium on Antennas and Propagation and CNC/USNC-URSI Joint Meeting, 2020, Montreal, Canada.
6. *Abedi, H., Boger, J., Wong, A., **Morita, P.P.**, and Shaker, G., Autonomous Gait Recognition and Monitoring Using Millimeter Wave FMCW Radar Integrated with a Hyperbolic Lens Antenna. International Microwave Symposium, 2020, Los Angeles, USA.
7. *Sahu, K.S., *Oetomo, A., and **Morita, P.P.** Smart monitoring for population health risk behaviour. International Symposium on Human Factors and Ergonomics in Health Care, 2019, Chicago, USA.
8. *Nobrega, R.M., *De Vera, K., Sereeter, U., Chuluunbaatar, B., Abdallah, W.A., Heikens, A., and **Morita, P.P.** Applying UCD and ZET to develop a cloud-based real time solution for air quality monitoring and its effects on child and maternal health in Mongolia. International Symposium on Human Factors and Ergonomics in Health Care, 2019, Chicago, USA.
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10. *Bevilacqua, T.S., Nobrega, R., Chen, H., and **Morita, P.P.** The challenges of data visualization for precision medicine. International Symposium on Human Factors and Ergonomics in Health Care, 2019, Chicago, USA.
11. *Davies, D., *Moradian, S., Maguire, R., Krzyzanowska, M., Kukreti, V., Cafazzo, J.A., **Morita, P.P.**, Bender, J., Le, L.W., Puts Martin, M., Husain, A., Amir, E., Liu, G., Howell, D. Predictors of Adherence to Remote Web-Based Symptom Monitoring Intervention. Supportive Care in Cancer, 2019, 27(1), S94.
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13. *Velmovitsky, P.E., Viana, M., Cirilo, E., Milidiu, R.L., **Morita, P.P.**, and Lucena, C. Promoting Reusability and Extensibility in the Engineering of Domain-specific Conversational Systems. Brazilian Conference on Intelligent Systems 2019 (BRACIS 2019), 2019, Salvador, Brazil.
14. *Sahu, K.S., *Oetomo, A., *Fadrique, L., *Rahman, D., and **Morita, P.P.** Healthy Behaviour Monitoring and Persuasive Engagement through Smart Thermostats. Persuasive Technology Conference 2018, 2018, Waterloo, Canada.
15. *Boroomand, A., *Wei, J., Boger, J., Shaker, G., Wong, A., and **Morita, P.P.** Autonomous Tracking of Older Adults' Normal and Slow Walking Speeds Using 24GHz Radar. ARIAL Workshop at the International Joint Conference in Artificial Intelligence, 2018, Stockholm, Sweden.
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18. Xiao, Y., Yin, S., Probst, Abts, N., **Morita, P.P.**, Fairbanks, R. Human Factors in the Wild: Bringing Value to Front-Line Care Providers via Low-Tech Methods and Solutions. Proceedings of the Human Factors and Ergonomics Society, 2015, 522-526.
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27. **Morita, P.P.**, Varani, M. L., and Calil, S. J. Development of a basic curricula, analysis of Clinical Engineering demand for healthcare facilities and national distribution of Clinical Engineering courses over Brazil using ARCVIEW software. XX Brazilian Congress on Biomedical Engineering & II Brazilian Congress on Clinical Engineering, 2006, Rio de Janeiro, Brazil.

c) **Books and Book Chapters:**

1. **Morita, P.P.** (2019). Design of mobile health technology. In F. Sasangohar & A. Sethumadhavan (Ed.), Handbook of Human Factors in Healthcare Design, Oxford, UK:Elsevier.
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d) **Technical and Consulting Reports:**

1. *Velmovitsky, P.E., *Miranda, P.A.S.E.S., *Fadrique, L.X., and ***Morita, P.P.** Blockchain in Health Care. Canadian Standards Association, Toronto, Canada, 2021, 1-46.
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2. *Fadrique, L.X, *Kuang, A., Mazza, L.U., and **Morita, P.P.** Rethinking Privacy Agreements. Canadian Standards Association (CSA), Toronto, Canada, 2020, 1-33.
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4. *Fadrique, L.X, *Rahman, D., **Morita, P.P.** The Active Assisted Living Landscape in Canada. Canadian Standards Association (CSA), Toronto, Canada, 2019, 1-45.
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6. *Sahu, K.S., *Oetomo, A., *Fadrique, L., *Mendonca, R.N., *Rahman, D., *Joshi, D., *Ting, M., and **Morita, P.P.** Leveraging Smart-Home Technology for Real-Time Monitoring of Health Behaviour at a Population Level. Healthy Behaviour Data Challenge, Toronto, Canada, 2018, 1-20.
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9. **Morita, P.P.**, Chui, F., Burns, C. Preliminary review of psychophysiological technologies to support multimodal UAV interface design. (Final Report PWGSC Contract No. w7711-098148/001/TOR Call-up: 8148-02). Defense Research and Development Canada, Toronto, Canada. June 30, 2010, 1-79.

e) **Other Publications:**

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2. *Oetomo, A. and **Morita, P.P.** Monitoring the Health Effects of Heatwaves using Smart Home Technology. In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
3. *Fadrique, L.* and **Morita, P.P.** Privacy and Trust in healthcare IoT data sharing: a snapshot of users perspectives. In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
4. *Fadrique, L., *Kuang, A., *Mazza, L., Donovska, T., Teague, J., Vaillancourt, H., and **Morita, P.P.** Rethinking Privacy Agreements (PA). In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
5. *Kuang, A., *Fadrique, L., *Mazza, L., Donovska, T., Teague, J., Vaillancourt, H., and **Morita, P.P.** Designing Pictograms for Privacy Agreements (PA). In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
6. *Miranda, P., *Velmovitsky, P., Donovska, T., Teague, J., Vaillancourt, H. and **Morita, P.P.** Blockchain Platform for Consent Management in Healthcare. International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.

7. *Jalali ,N., *Oetomo, A., *Sahu, K.S., and **Morita, P.P.** Using large smart home datasets to assess sleep quality: The effect of residential neighborhood on sleep disturbance. In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
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9. *Bevilacqua, T. and **Morita, P.P.** A Human-factors Approach to Healthcare Data Visualization Challenges. In International Symposium on Human Factors and Ergonomics in Health Care, 2020, Toronto, Canada.
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12. *Pham Q., Shaw J., **Morita, P.P.**, Seto E., Stinson J.N., Cafazzo J.A. The Service of Research Analytics to Optimize Digital Health Evidence Generation. 2020 International Behavioural Trials Network, 2020, Montreal, CA.
13. *Pham Q., Shaw J., **Morita, P.P.**, Seto E., Stinson J.N., Cafazzo J.A. Applying Research Analytics to Optimize Digital Health Evidence Generation. eHealth 2020 Conference, 2020, Vancouver, CA.
14. *Sahu, K.S., *Oetomo, A., and **Morita, P.P.** Smart home based public health surveillance for health behaviour risk monitoring and behavioural change: AAL perspective. AAL Forum, 2019, Aarhus, DK.
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20. *Abedi, H., Shaker, G., **Morita, P.P.**, Wong, A., Boger, J. The use of radar in a smart bed for detecting gait-related physiological parameters. Symposium on Aging Research (SoAR), 2019, Waterloo, Canada.

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25. Chan, L.T., Bomfim, M.C.C, Somani, N., Mungunzagas, D., Purevsuren, S., Baljinnyam, M., Nyamlkhavga, T., Batmend, T., Batsaikhan, T., Irvin, A., Lkhagvasuren, O., Dagva, B., Heikens, A., and **Morita, P.P.** LIFEHACK - A serious game and simulation by Mongolian youth to educate and motivate students to make healthy choices in Mongolia. The Global Health Student and Young Professional Summit (GHSYPs) Summit 2018, 2018, Toronto, Canada.
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47. *Sahu, K.S., *Oetomo, A., *Fadrique, L., and **Morita, P.P.** Remote Monitoring of Health: Using Smart Thermostat Data. Inter-University Workshop IUW 2017, 2017, Buffalo, USA.
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50. *Rahman, D. and **Morita, P.P.** Human Factors Implications for Designing Zero-Effort Technology - How to Design for Technologies Without Controls or Interfaces. Inter-University Workshop IUW 2017, 2017, Buffalo, USA.
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64. **Morita, P.P.**, Weinstein, P.B., Flewwelling, C.J., and Bañez, C.A, Cafazzo, J.A. The use of human factors methods to determine use-safety and user experience of mechanical ventilators. 8th World Congress on Pediatric Intensive and Critical Care, 2016, Toronto, Canada.
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66. **Morita, P.P.**, Kirkey, J., Barmala, N., Feifer, A., Kazanjian, J., Bender, J., Pffaf, D., Parente, L., Yeung, M., Cafazzo, J.A. Tackling Prostate Cancer Through eHealth: The Unique Comparison of Ned and TrueNTH. 2016 International Symposium on Human Factors and Ergonomics in Health Care, 2016, San Diego, USA.
67. **Morita, P.P.**, Zbib, A., Morone, L., and Cafazzo, J.A. Redesigning an mHealth Platform Leveraging Usage Data From Previous Generations and Persuasive Design Methods: The Experience With < 30 Days. 2016 International Symposium on Human Factors and Ergonomics in Health Care, 2016, San Diego, USA.
68. **Morita, P.P.**, Yeung, M., Liciskai, C., Ferrone, M., Taite, A., Madeley, C., Lavigne, A., To, T., Loughheed, M.D., Seto, E., Cafazzo, J.A. Understanding Usage Patterns from Asthma Patients - Lessons from Breathe. eHealth 2016 Annual Conference, 2016, Vancouver, Canada.
69. **Morita, P.P.**, and Cafazzo, J.A. Tracking every step: The use of fitness trackers in Ethnography and Patient Safety Initiatives. 7th Annual University of Toronto Centre for Quality Improvement and Patient Safety (C-QuIPS) Symposium, 2015, Toronto, Canada.
70. **Morita, P.P.**, and Cafazzo, J.A. Tracking every step: The use of fitness trackers in Ethnography and Patient Safety Initiatives. 2015 International Symposium on Human Factors and Ergonomics in Health Care, 2015, USA.
71. Desjardins, R., **Morita, P.P.**, Weinstein, P. Lokuge, B., Kurahashi, A, Jamieson, T, Husain, A., and Cafazzo, J.A. Keeping the Patient in the LOOP - The Evolutionary Design of a Patient-Centered Communication Tool. 2015 International Symposium on Human Factors and Ergonomics in Health Care, 2015, Baltimore, USA.

72. **Morita, P.P.**, and Burns. C.M. Development of technologies for supporting ‘trust’ in an ICU environment. Canadian Student Health Research Forum, 2012, Winnipeg, Canada.
73. **Morita, P.P.**, and Burns, C.M. Institutional and personnel situation awareness – Two sides of the same coin. Halifax 10: The Canadian Healthcare Safety Symposium, 2010, Halifax, Canada.

PRESENTATION TO SCHOLARLY GROUPS:

- a) Invited **Morita, P.P.** Advancing the Role of IoT in Public Health Research – Data Access and Consent Management, AI & Disruptive Technologies in Healthcare Forum, Science and Policy Exchange, Canada.
(<https://www.sp-exchange.ca/events/ai-disruptive-technologies-in-healthcare>)
- b) Invited **Morita, P.P.** How to Design Better COVID-19 Exposure Notification Apps. 2020, Data and Privacy During a Global Pandemic Conference, Canada
- c) Invited **Morita, P.P.** Drowning in an Ocean of Data – Making Good Use of Wearable Data. 2020, Association of Canadian Ergonomists Virtual Summit, Canada.
- d) Invited **Morita, P.P.** Managing the Pandemic through Contact-Tracing Apps: Technological innovation or a Challenge to Privacy and Civil Liberties. 2020, Cybersecurity and Privacy Institute, University of Waterloo, Canada.
(<https://youtu.be/X4VjVABeebM>)
- e) Invited **Morita, P.P.** Post COVID-19 Reboot” Panel Series – Rebooting: Security and Data Privacy Considerations. 2020, GEDI, University of Waterloo, Canada.
(<https://www.youtube.com/watch?v=rk1jJQb-Ed0>)
- f) Invited **Morita, P.P.**, Tatham, W., Malaviya, S. The Future of Data Driven Healthcare. 2019, Waterloo Innovation Summit, University of Waterloo, Canada.
(<https://www.youtube.com/watch?v=w2GjgYojPB4&feature=youtu.be>)
- g) Invited **Morita, P.P.** Blockchain Applications in Healthcare for Consent Management. 2019, Cybersecurity and Privacy Institute Annual Conference, University of Waterloo, Canada.
- h) Invited **Morita, P.P.** The Role of IoT on Global Health and Environmental Surveillance Programs. 2019, Forum Clima e Saude, Universidade Estadual de Campinas, Campinas, Brazil.
- i) Invited **Morita, P.P.** The new age of population level surveillance and remote patient monitoring - IOT, Wearables, and Zero Effort Technologies. 2018, Autonomy Program Scientific Seminar – Technologies for Active Aging, Sorbonne University (UPMC) and Université de Technologie de Compiègne, Paris, France.

- j) Invited **Morita, P.P.** Population-Level Surveillance Using mHealth, IoT, and Smart Home Technologies. 2018, BIOMEDInnov Summer School, Sorbonne University (UPMC), Université de Technologie de Compiègne, and Centre d'Études Littéraires et Scientifiques Appliquées (CELSA), Paris, France.
- k) Invited **Morita, P.P.** The New Age of Population-Level Surveillance: IoT, Wearables, and Zero-Effort Technologies. 2018, Faculty of Rehabilitation Medicine, University of Alberta, Canada.
- l) Invited **Morita, P.P.** Mobile Health Technology for Mental Health and Reproductive Health. 2017, Youth Innovation Challenge for Adolescent Health in Mongolia, Mongolia.
- m) Invited **Morita, P.P.** Cyber Security and Connected Healthcare. 2015, Information Security in a Connected World, University of Toronto, Canada.
- n) Invited **Morita, P.P.** How to maximize teamwork and awareness in healthcare teams. 2013, Japan Society for Fuzzy Theory and Intelligent Informatics, Kyoto University, Japan.
- o) Invited **Morita, P.P.** A Human factors model for “trust” and the development of trust supporting tools. 2011, 2011 Human Factors Inter University Workshop, State University at Buffalo, USA.
- p) Invited **Morita, P.P.** Institutional and personnel situation awareness – Two sides of the same coin. 2010, 2010 Human Factors Inter University Workshop, Waterloo, Ontario, Canada.
- q) Invited **Morita, P.P.** The importance of a safety culture in healthcare facilities for the development of an incident investigation system. 2009, 2009 Human Factors Inter University Workshop, Toronto, Ontario, Canada.
- r) Invited **Morita, P.P.** Risk management in Clinical Engineering. 2008, III Clinical Engineering Seminar of the São Paulo State Interior Region, Bauru, São Paulo, Brazil. (Keynote speaker)
- s) Invited **Morita, P.P.** Incident investigation guidelines based on a project management structure. 2008, CSAP 2008 – Students and Professors Seminars Cycle, School of Electrical and Computer Engineering, UNICAMP, Campinas, São Paulo, Brazil.

PRESENTATION TO PROFESSIONAL GROUPS:

- a) Invited **Morita, P.P.** Population-Level Surveillance Using mHealth, IoT, and Smart Home Technologies. 2018, Systems Committee on Active Assisted Living (AAL) Technology at the International Electrotechnical Commission (IEC) International Committee Meeting, Japan.

OTHER PRESENTATIONS:

- a) Invited **Morita, P.P.** So Your Wearable Tracks Blood Oxygen Data. How Do You Use It?, WIRED, <https://www.wired.com/story/how-to-use-blood-oxygen-data-on-apple-watch-garmin-fitbit-samsung/>
- b) Invited **Morita, P.P.** COVID Alert app nears 3 million users, but only 514 positive test reports, CTV News, <https://www.ctvnews.ca/health/coronavirus/covid-alert-app-nears-3-million-users-but-only-514-positive-test-reports-1.5125256>
- c) Invited **Morita, P.P.** Managing the pandemic through contact tracing apps: Technological innovation or a challenge to privacy and civil liberties, Waterloo Stories, <https://uwaterloo.ca/stories/managing-pandemic-through-contact-tracing-apps>
- d) Invited **Morita, P.P.** Mining IoT data for community public health. 2019, Waterloo Stories, <https://uwaterloo.ca/stories/global-impact/mining-iot-data-community-public-health>
- e) Invited **Morita, P.P.**, Shaker, G. UW develops new tech for better sleep. 2019, CTV News, <https://www.ctvnews.ca/video?clipId=1681471&jwsourc=em>
- f) Invited **Morita, P.P.** ecobee room sensor data to help advance healthcare. 2018, ecobee Social Media Campaign, <https://www.ecobee.com/2017/02/ecobee-room-sensor-data-to-help-advance-healthcare>
- g) Invited **Morita, P.P.** Can Smart Homes Replace Retirement Homes?. 2018, ecobee Social Media Campaign, <https://www.ecobee.com/2018/04/can-smart-homes-replace-retirement-homes/>
- h) Invited **Morita, P.P.** Taking health informatics to a global level. 2018, Report on Giving at the University of Waterloo, <https://uwaterloo.ca/report-on-giving/2017-18-report-giving/feature/plinio-morita-taking-health-informatics-global-level>
- i) Invited **Morita, P.P.** Smart Thermostat Technology to Predict the Onset of Dementia. 2018, Centre for Bioengineering and Biotechnology Social Media Campaign, <https://uwaterloo.ca/bioengineering-biotechnology/smart-thermostat-technology-predict-onset-dementia>
- j) Invited **Morita, P.P.** Disrupting Traditional Models of Healthcare – Can Mobile Tech Help Prevent Suicide or Predict a Heart Attack? 2017, Waterloo Magazine, <https://uwaterloo.ca/magazine/fall-2017/feature/disrupting-traditional-models-health-care>
- k) Invited **Morita, P.P.** Taking Health Informatics to a New Level. 2017, J.W. Graham Information Technology Trust Report, University of Waterloo.

- l) Invited **Morita, P.P.** Use of Hackathons to Develop eHealth Solutions to Support Adolescents’ Sexual and Reproductive Health in Mongolia. Youth Innovation Challenge for Adolescent Health in Mongolia. 2017, News coverage: Discussing issues of adolescent sexual health in Mongolia, <http://news.gogo.mn/r/201401>.

- m) Invited **Morita, P.P.** Use of Hackathons to Develop eHealth Solutions to Support Adolescents’ Mental Health in Mongolia. 2017, Youth Innovation Challenge for Adolescent Health in Mongolia. News coverage: Negative experiences from the early childhood can be manifested through adolescence, <http://news.gogo.mn/r/201449>.

RESEARCH GRANTS AND CONTRACTS:

Secured Funding

Summary

Total Granted (\$29,427,494)	NSERC (\$160,000, 3 grants)	PI and Co-PI (\$5,241,469, 41 grants)
Total Share (\$5,068,794)	CIHR (\$184,175, 3 grants)	Co-Applicant (\$24,186,025, 4 grants)
	SSHRC (\$25,000, 1 grant)	
	ERA (\$150,000, 1 grant)	
	MITACS (\$1,891,326, 10 grants)	
	OCE (\$705,000, 4 grants)	

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI)	Early Researcher Award	\$150,000	2020-2025	Mobilizing IoT-Based Health and Environmental Data for Increased Public Awareness
Plinio P. Morita (PI)	OCI VIP Program and Swidget	\$322,500	2021-2024	Supporting Healthy Aging using Smart Home Technology – A Remote Monitoring Platform
Plinio P. Morita (PI)	MITACS Accelerate Partner: CSA Group	\$420,000	2021-2024	Implementation Framework for AAL Technologies to Support the Continuum of Care in Smart Communities

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI) and Okechukwu (Okey) Igboeli	CBB Seed Funding	\$7,500	2021-2022	Assessment and development of standard and process requirements for the integration of Active Assisted Living (AAL) technologies at the community level
Plinio P. Morita (PI), Jennifer Boger, Laura Middleton, Christophe Tzourio, and Rodolphe Thiébaud	MITACS Globalink Research Awards (Mobility)	\$30,000	2021-2023	Applications of Wearable Data and AI to Augment the i-Share Platform
Ronald Bowles and Plinio P. Morita (Co-Applicant)	SSHRC Connection Grants	\$25,000	2022-2023	Paramedics Connecting Through Applied Research
Yves Tiberghien, Plinio P. Morita (Co-PI)	MITACS Accelerate and Cansbridge Foundation	\$330,000	2021-2021	Understanding the Rise of the Asian Multinational Corporations: Organizational Competence and Innovativeness in Business Culture
Plinio P. Morita (PI), Rebecca Saari, and Peter Berry	IC3 Seed Grants	\$10,000	2021-2021	Monitoring the effects of heatwaves and air pollution on health using smart home technology and Real-time syndromic surveillance of air pollution to monitor adverse public health impacts
Zahid Butt, Plinio P. Morita (Co-PI), and Jane Law	CFI-JELF	\$76,000	2021-2026	Public Health Research and Analytics Lab: a platform for disease mapping, health data analyses and knowledge translation
Plinio P. Morita (PI)	MITACS COVID-19 Rapid Funding Partner: Thinktum	\$293,326	2020-2023	Monitoring the Impact of COVID-19 Isolation Policies on Public Wellness using IoT - A Public Health and Work from Home Perspective

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI)	Ontario Centres of Excellence (OCE) VIP Program Partner: ecobee	\$300,000	2020-2022	Development of Public Health Monitoring Tools for ecobee
Plinio P. Morita (PI)	Concept/IC3 Climate Change Grant	\$5,000	2020	Air Pollution Monitoring in LMIC Through IoT Technologies
Tarek Regazi and Plinio P. Morita (Co-PI)	University of Waterloo Trailblazer Funding	\$70,000	2020-2021	Workers' Health and Safety Real-time Monitoring using Wearable Technology to Enhance Construction Management Practices
Jennifer Boger, Plinio P. Morita (Co-PI), George Shaker, and Alex Wong	AI Institute's AI for Social Good Funding Program	\$25,000	2019-2021	Artificial Intelligence for Autonomous Human Monitoring and Activity Recognition for Safety and Health Improvement
Quynh Pham, Joseph Cafazzo, Jane MacIver, Plinio P. Morita (Principal Applicant) Heather Ross, Emily Seto, Gary Graham, Chitra Laloo, Mike Lovas, Laura Rosella, James Shaw, Jennifer Stintson, Sahr Wali, Patrick Ware, Ed Brown, Michael Hillmer and Graham Woodward	CIHR Project Grant	\$149,175	2020-2021	Actionable Analytics for Optimized Heart Failure Management and Self-Care
Plinio P. Morita (PI)	Microsoft Research Grant	\$48,000 (in-kind)	2019-2021	Big Data Ecosystem for Public Health Surveillance and Air Quality Monitoring
Plinio P. Morita (PI)	Microsoft Research Grant	\$20,000 (in-kind)	2019-2020	The Development of a Data Ecosystem for the AI for Social Good Project

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Paula D. P. Costa and Plinio P. Morita (Co-PI)	CAPES Visiting Professor Award	\$2,500	2020	Establishment of an Environment and Health Monitoring Data Ecosystem
Plinio P. Morita (PI), Jennifer Boger, George Shaker, and Alex Wong	Research Contract Partner: HillRom Canada	\$150,000	2020-2021	Smart Predictive Analytics for Hill-Rom's Data Ecosystems – Phase 2
Plinio P. Morita (Co-PI)	NSERC Engage Partner: Plotly	\$25,000	2020-2021	Data Visualization Libraries for Precision Medicine
Plinio P. Morita (PI), Jennifer Boger, Laura Middleton, Christophe Tzourio, and Rodolphe Thiébaud	Bordeaux-Waterloo Research Grants	\$30,000	2020-2021	i-Share & AI – Exploring the Role of Artificial Intelligence and Wearable Data in Predicting iShare User Behaviour
Plinio P. Morita (PI), Jennifer Boger, George Shaker, and Alex Wong	Research Contract Partner: HillRom Canada	\$56,935	2020-2021	Smart Predictive Analytics for Hill-Rom's Data Ecosystems – Phase 1
Plinio P. Morita (PI)	MITACS Accelerate Partner: CSA Group	\$90,000	2020	Exploration and Development of an Active Assisted Living Data Sharing Infrastructure Aimed at Supporting the Development of Standards, Guidelines, and Certification Programs – Blockchain for Consent Management
Geoff Fernie, Atena Roshan Fekr, Jeffrey William Jutai, Jennifer Boger, Plinio P. Morita (Co-Applicant, site Lead), Gary Faulkner, Majid Janidarmian, Jason Millar, Lois Macklin, Edward Lemaire, Pascal Fallavolita, Danielle Sinden, Jose Zariffa, and Ted Maulucci	AGE-Well NCE Core Research Program Partner: SmartOne	\$ 4,183,535	2020-2023	PATH: Program to Accelerate Technologies for Homecare

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI)	MITACS Accelerate Partner: CSA Group	\$105,000	2019-2020	Exploration and Development of an Active Assisted Living Data Sharing Infrastructure Aimed at Supporting the Development of Standards, Guidelines, and Certification Programs
Plinio P. Morita (PI)	MITACS Accelerate Partner: CSA Group	\$60,000	2019	Development of an Infrastructure for AAL Technology Data Exchange, to Inform Policy and Governance Guidelines.
Plinio P. Morita (PI)	AI Institute's AI for Social Good Funding Program	\$39,000	2019-2021	Public Health Surveillance Using AI and IoT Devices
Plinio P. Morita (PI) and Keshav Srinivasan	Small Seed Grant Proposals on Cybersecurity or Privacy Institute	\$20,000	2019-2021	Blockchain Platform for Consent Management in Healthcare
Plinio P. Morita (PI)	MITACS GlobalLink Research Awards (3 students)	\$22,000	2019-2020	Project 1: Use of Persuasive Design to Engage Users with Online Tools, Dashboards, Apps for Better Chronic Disease Management Project 2: Implementation of an Automatic Sound Recognition System for the Detection of Activities of Daily Living (ADL)
UNICEF Mongolia, Alex Heikens, Plinio P. Morita (Co-Applicant)	Swiss Agency for Development and Cooperation	\$4,802,490	2018-2022	Reducing Maternal and Child Health Risks from Exposure to Air Pollution
Plinio P. Morita (PI)	Research Contract Partner: Health Canada	\$24,900	2018-2019	Climate Change and Health: Overview of Blockchain and Internet of Things
Plinio P. Morita (PI)	Sidewalk Labs Small Research Grants	\$15,000	2018-2018	Zero-Effort In-Home Monitoring Using IoT Technology

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI)	MITACS GlobalLink Research Awards (1 student)	\$8,000	2018- 2018	Commercialization Factors of mHealth and eHealth Innovations
Plinio P. Morita (PI) and Kirti Sahu	CIHR Catalyst Grant	\$25,000	2018- 2019	Healthy Behaviour Data Challenge Phase 2: Smart Home monitoring for 24-hour data collection
Plinio P. Morita (PI)	NSERC Discovery Grant	\$110,000	2017- 2022	Real-Time Data from Ubiquitous Sensing Networks and their Influence on Decision Making
Plinio P. Morita (PI)	NSERC Engage Partner: ecobee	\$25,000	2017- 2018	Remote Monitoring and Activity Tracking Through Internet of Things (IoT) Thermostat
Plinio P. Morita (PI)	CIHR Catalyst Grant	\$10,000	2017- 2018	Healthy Behaviour Data Challenge Phase 1: Smart Home monitoring for 24-hour data collection
Helen Chen and Plinio P. Morita (Co-PI)	Research Contract Partner: Roche Canada	\$90,000	2017	The CARE Platform – Clinical and Real Word Evidence Platform for Post-Market Surveillance of Drugs and Medical Technology
Helen Chen and Plinio P. Morita (Co-PI)	MITACS Accelerate Cluster Partner: Roche Canada	\$533,333	2017- 2019	The CARE Platform – Clinical and Real Word Evidence Platform for Post-Market Surveillance of Drugs and Medical Technology
Helen Chen and Plinio P. Morita (Co-PI)	Research Contract Partner: Roche Canada	\$278,200	2017- 2019	The CARE Platform – Clinical and Real Word Evidence Platform for Post-Market Surveillance of Drugs and Medical Technology

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Plinio P. Morita (PI)	Ontario Centres of Excellence (OCE) Talent Edge Postdoctoral Fellowship Partner: Studio1Labs	\$57,500 \$1,000,000 (in-kind)	2017-2018	Wire-Free Continuous Respiratory Monitoring Using Functional Bed Sheet (Support for Yevgeniy Davletshin)
Plinio P. Morita (PI)	Ontario Centres of Excellence (OCE) – Voucher for Innovation and Productivity 1 (VIP1) Partner: Studio1Labs	\$25,000	2017-2018	Development of an Adaptive System for Data Processing for Vital Signs Detection Using Smart Fabric Technology
Plinio P. Morita (PI)	RBC Undergraduate Fellowship	\$11,600	2017	Predicting the Onset and the Progression of Dementia Through the use of Internet of Things (IoT) Smart Thermostats
Plinio P. Morita (PI)	Research Contract Partner: UNICEF Mongolia	\$10,000	2017	Youth Innovation Challenge for Adolescent Health in Mongolia
Plinio P. Morita (PI)	University of Waterloo Startup Grant	\$85,000	2016-2022	Startup Grant - Use of Mobile Health and IoT Technologies for Public Health Surveillance
Emily Seto and Plinio P. Morita (Co-PI)	Research Contract Partner: Yukon Government	\$79,000	2016-2017	Evaluation of the Yukon Telehealth Program

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Doris Howell, Monika K. Krazyzanowska, Roma Maguire, Vishal Kukreti, Geoffrey Liu, Joe A. Cafazzo, Saeed Moradian, Jackie Bender, Lisa W. Le, Amna Husain, Maria M. Puts, Eitan Amir and Plinio P. Morita (Co-I)	Canadian Cancer Society Research Institute Innovation Grant	\$200,000	2016-2018	Adaptation, Feasibility and Acceptability Study of the Advanced Symptom Management System (ASyMS) e-Health Intervention for Chemotherapy Toxicities in Canadian Cancer Patients
Harvey Skinner, Pat Clifford, Joe Cafazzo, Plinio P. Morita, Plinio Morita (Collaborator), and 112 other researchers.	FedDev Ontario	\$15,000,000	2016-2019	New Spaces: Technology for Personalized Health

Funding Under Revision

Summary

Total Applied (\$2,221,000)	ORF (\$76,000, 1 grant)	PI and Co-PI (\$2,288,500, 4 grants)
	MITACS (\$30,000, 1 grants)	Collaborator (\$20,000, 1 grant)
Total Share (\$511,000)	OCI (\$322,500, 1 grant)	

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
CSA Group (Lead Applicant), Katherine Zagrodney, Rosalie Wang, Plinio P. Morita (Co-PI), Samir Sinha, Amin Yazdani, Rebecca Hancock-Howard.	Sectoral Initiatives Program, Employment and Social Development Canada (ESDC)	\$1,860,000	2021-2023	Skills Training for Care-in-Place: A Canadian labour market prepared to address new pandemic-inspired opportunities and expectations for Home and Community Care in Canada

<u>Names of Researcher(s)</u>	<u>Agency</u>	<u>\$ Amount</u>	<u>Tenure</u>	<u>Short Title</u>
Shelby Sturrock, Dionne Gesink, Plinio P. Morita (Collaborator), Sarah Woodruff.	Dalla Lana School of Public Health – Data Science Seed Grant	\$20,000	2021-2021	Participant-owned wearables for evaluating longitudinal trends in physical activity before and during the COVID-19 pandemic
Plinio P. Morita (PI), Dan Istrate	MITACS Globalink Research Awards (Mobility)	\$30,000	2021-2023	Use of AI and Wearable Data for Public Health Monitoring
Zahid Butt, Plinio P. Morita (Co-PI), and Jane Law	Ontario Research Fund – Research Infrastructure	\$76,000	2021-2026	Public Health Research and Analytics Lab: a platform for disease mapping, health data analyses and knowledge translation

POSTDOCTORAL SUPERVISION:

a) As Supervisor

1. PDF – Kiemute Oyibo, 2020-2022
2. PDF – Niloofar Jalali, 2019-2021
3. PDF – Zinab Ibrahim Abuwarda Mohamed, 2019-2020.
4. PDF – Frederico Bublitz, 2019-2020
5. PDF – Adson Rocha, 2019-2019
6. PDF – Andre Carrington, 2019-2019
7. PDF – Yevgeniy Davletshin, 2018-2018
8. PDF – Ameneh Boroomand, 2018-2018

GRADUATE STUDENT SUPERVISION:

b) As Supervisor

1. Ph.D. - Carla Girolametto, To be Determined, 2028
2. Ph.D. - Kang Wang, To be Determined, 2024
AI Institute Graduate Scholarship - 2021
3. Ph.D. - Pedro Augusto Miranda, Consent Management for Crowdsourced Big Data Using Blockchain, 2023
4. Ph.D. - Shahan Salim, Big Data Ecosystem for Global Health Research, 2023
NSERC PGS Scholarship – 2021-2024

5. Ph.D. - Arlene Oetomo, IoT-Based Monitoring of Heatwaves, 2023
NSERC PGS Scholarship – 2020-2023
6. Ph.D. - Pedro Velmovitsky, Apple ResearchKit-Based Population-Level Surveillance Platform, 2022
Ontario Trillium Scholarship (OTS) – 2018-2022
7. Ph.D. - Tatiana Bevilacqua, Data Visualization for Precision Medicine, 2022
8. Ph.D. - Hajar Abedi, Use of Radar Technology for Falls Detection, 2022
9. Ph.D. - Kirti Sundar Sahu, Public Health Surveillance Using IoT Smart Home Technology, 2021
10. Ph.D. - Rena Yang (Co-Supervisor), Economic Evaluation Framework for Mobile Health Technology, 2021
11. Ph.D. - João Carlos Almeida (University of Campinas), mHealth Solution of Uroflowmetry, 2021
12. Masters - Dia Rahman, Commercialization Pathways for mHealth Technology, 2021
13. Masters - Laura X. Fadrique, Privacy and Trust in Healthcare IoT Data Sharing: A Snapshot of Users and Researchers Perspectives, 2019

c) **As Committee Member** (numbers)

1. Ph.D. (9)
2. Masters (6)

d) **External Examiner**

1. Ph.D. - Quynh Pham, Innovative Research Methods to Evaluate Effective Engagement with Consumer Mobile Health Applications for Chronic Conditions, University of Toronto, 2019
2. Ph.D. - Gabriela Constantinescu, Development and Evaluation of a Mobile Health Solution for Patients with Dysphagia, University of Alberta, 2018

SERVICE:

a) **University**

- Biomedical Engineering Graduate Program Committee, Systems Design Engineering, University of Waterloo, 2021 to Present
- Digital Health Track Chair, University of Waterloo and University of Strathclyde Research Colloquium, 2020.
- Research Steering Committee for Roger's Funding Program in 5G Technologies, 2019 to 2020.
- PhD Defence Chairing, 2019 to 2020.
- Advisory Committee on Graduate Scholarships & Awards – AHS Representative, 2017 to 2018 and 2019 to 2022.
- Graduate Awards Selection Committee, 2016 to 2017

b) **Faculty**

- University of Waterloo Representative on a mission to the UK to develop partnerships in Technology and Aging (NHS MoU), 2019 to Present
- AHS Undergraduate Studies Committee, 2017 to 2018.
- AHS Undergraduate Committee on Student Appeals, 2017 to 2019.

c) Department

- SPHHS Undergraduate Executive Committee, 2021 to Present
- SPHHS Graduate Executive Committee, 2021 to Present
- SPHHS Recruitment Team and Task Force – Recruitment Lead, 2020 to Present
- SPHHS Envisioning Steering Committee – Strategic Planning, 2019 to 2020
- SPHHS Graduate Diploma Committee, 2016 to 2019
- SPHHS Professional Graduate Programs Committee, 2016 to 2017 and 2019 to 2020.
- SPHHS Professional Graduate Admissions Committee, 2017 to 2020.
- SPHHS Undergraduate Program Committee, 2017 to 2019.
- SPHHS Space Committee, 2017 to 2019.
- SPHHS Research Graduate Admissions Committee, 2017 to 2019.

d) Community

- Digital Health Track Chair, Human Factors and Ergonomics Society (HFES) Healthcare Symposium, 2019 to 2020.
- Vice Chair, IEC/SCC – Systems Committee Active Assisted Living, Standards Council of Canada, 2016 to Present.
- Member, ISO/SCC – TC314 – Ageing Societies, Standards Council of Canada, 2018 to Present.
- Organizing Chair, International Persuasive Technology 2018 Conference, 2017 to 2018.
- Member, Human Systems Performance Centre of Expertise, Defence Research and Development Canada, 2017 to Present.
- Research and eHealth Technology Advisor, Adolescent Sexual and Mental Health Initiative – UNICEF Mongolia, 2017 to Present.
- Committee Member, Safe Medications Practice Committee – University Health Network, 2014 to 2016.

AREAS OF TEACHING EXPERTISE:

- Health informatics
- eHealth and mHealth design
- Remote patient monitoring and telehealth
- Big data and AI in healthcare
- Qualitative methods
- Persuasive design
- User-centered design
- Human factors methods
- Distributed health informatics

CURRENT RESEARCH INTERESTS:

- IoT for supporting independent living
- Information overload with IoT technology
- Human decision making & IoT
- Predictive healthcare leveraging IoT and eHealth
- Persuasive design
- Human Factor Engineering
- UX/UI
- Rapid public health surveillance
- Blockchain