University of Victoria | Health Information Science

Digital Health Lives Here

Director's Message

In this issue of the newsletter we feature a number of School initiatives and accomplishments. This includes a listing of the past summer school VADA (Visual Automated Disease Analytics) NSERC funded workshop presentations, which focused on public health informatics. Links to recordings of a number of the VADA presentations are included in this newsletter. Also, see the School of Health Information Science YouTube channel for all our recorded presentations. We also want to highlight a new faculty member in the school – Dr. Claudia Lai, whose recent research publications can be accessed from this newsletter. Our highlighted co-op student is Victoria Bustos-Gomez who worked in the Island Health planning department. We also highlight Paul Payne (one of our undergraduate and graduate alumni) who has recently taken on the role of acting CIO for Health and Social Services, Government of

the Yukon. In addition, we provide links to a range of new publications by faculty and students.

News and Events

Congratulations to the School of Health Information Science Graduates from the Fall 2022 convocation!

We are proud of your accomplishments and look forward to learning about the great leadership you will be providing to the Canadian Healthcare System today and into the future in the areas of Digital Health and Health Informatics!
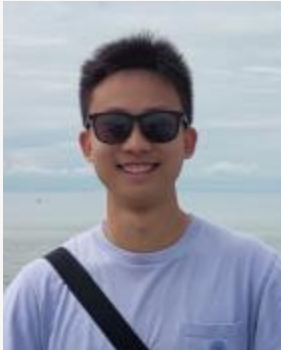

Big Data Analytics in Healthcare Workshop

UVic Health Information Science faculty members **Dr. Alex Kuo, Dr. Elizabeth Borycki, Dr. Andre Kushniruk, and Dr. Dillon Chrimes** will be leading a workshop in Osaka, Japan from December 17-20, 2022. At the workshop, there will be a gathering of researchers and practicioners that will discuss challenges and solutions to Big Data Analytics issues in healthcare, medicine, and biology. For more information please visit the event webpage HERE

Awards and Recognitions

Congratulations to **Joe Walsh,** PhD (cand.) in the school of Health Information Science**,** on presenting at the **MUSE Ontario Conference** in Vaughan Ontario on October 6, 2022 on **Handheld Web Point of Care**!

Congratulations to **Leo Ma** on receiving a **Jamie Cassels Undergraduate Research Award (JCURA) Award** to study **Informing the Canadian Public About Health Topics Using Dashboards: Examining the Usability and Identifying Opportunities to Improve Dashboards for Communicating Health Information** Leo will be doing this research with **Dr. Monkman**

Congratulations to **Dawson Langton** on receiving a **JCURA Award** to study **Prototype Apps for Tracking Blood Pressure. Dr. Monkman** will be supervising his research.

Congratulations to **Carrie (Yi Yan)** on her **JCURA Award** research focused on **Patient Health Portal's Function and Usability** with **Dr.Helen Monkman.**

The VADA Program
Visual and Automated Disease Analytics Graduate Training Program

JUNE 20th - JUNE 22nd

This year's **Summer School** focused on **Public Health Informatics. Dr. Elizabeth Borycki** and **Dr. Andre Kushniruk** co-lead the **2022 Visual Automated Diesease Analytics Summer School**. Thank you to our speakers! We had many **internationally and nationally** reknowned speakers presenting on leading practices and research in **Public Health Informatics**.

Check out their presentations on our Youtube Channel HERE

Our Featured Speakers :

Presentation:

DATA STEWARDSHIP FOR A WORLD-CLASS HEALTH DATA SYSTEM

SPEAKER:

ERIC SUTHERLAND
Executive Director, Pan-Canadian Health Data Strategy, Public Health Agency Of Canada

Watch the recording HERE

Presentation:

DIGITAL HEALTH IN CANADA : AN INTRODUCTION TO THE DIGITAL HEALTH LANDSCAPE : ENABLING HEALTH SYSTEM PRIORITIES

SPEAKERS (From Left to Right):

MARK CASSELMAN
Chief Executive Officer, Digital Health Canada

NICKIESHA LINTON
Manager, Education, Digital Health Canada

Watch the recording HERE

Presentation:
MODELLING AND DATA ANALYSIS IN THE CONTEXT OF COVID

SPEAKER:

ADEL GUITOUNI
Associate Professor, Gustavson School of Business, University of Victoria
Associate Co-Chair of the Victoria Forum

Watch the recording [HERE](#)

Presentation:
DATA VISUALIZATION NEEDS TO SUPPORT EMERGENCY RESPONSE TO COVID IN A SAFETY NET HOSPITAL

PANELISTS (From Left to Right):

DAVE KAUFMAN
PHD, FACMI, Clinical Associate Professor, Medical Informatics Downstate Health Sciences University

YALINI SENATHIRAJAH
Associate Professor, Department of Biomedical Informatics, University of Pittsburgh School of Medicine, Department of Biomedical Informatics

KENRICK CATO PHD, FAAN
Nurse Researcher, New York-Presbyterian Hospital & Assistant Professor, Columbia University School of Nursing

Watch the recording [HERE](#)

Presentation:
PROJECT MANAGEMENT DURING THE COVID19 PANDEMIC

PANELISTS (From Left to Right):

RAV GOODISON MSC, PhD (cand.)
School of Health Information Science, University of Victoria & Project Manager
Consultant

JOE WALSH MSc PhD (cand.)
School of Health INformation Science, University of Victoria & Manager of ICT
Operations & Security for a Group of Community Hospitals, Halton Region, Ontario

JEROME CAÑETE MD
A/Manager, Design and Delivery, Online Operations at HealthlinkBC

SUSI WILKINSON MSc.
Lead, Clinical Informatics, Professional Practice Office, Interior Health

CAREERS IN DATA SCIENCE!

PANELISTS (From Left to Right):

MICHAEL LI
Regional Director, Decision Support System Improvement and Quality Analytics,
Vancouver Coastal Health

AMIRAV DAVY MSc (cand.)
School of Health Information Science, University of Victoria & Digital Health
Program Manager, CIUSSS of West-Central Montreal

YANYAN LI PhD (Student)
Researcher, School of Health Information Science, University of Victoria
Portfolio Manager, Health Informatics and Information Technology Department,
Fraser Health

Watch the recording HERE

MEASURING THE STATE OF DIGITAL HEALTH AND WHAT CANADIANS WANT: USING DATA
ANALYTICS TO DRIVE HEALTH SYSTEM DECISIONS

SPEAKERS (From Left to Right):

SIMON HAGENS MBA
Director, Performance Analytics, Canada Health Infoway

BOBBY GHEORGHIU BBA, MHSc, CPHIMS
Director, Analytics, Canada Health Infoway

Watch the recording HERE

THE IMPORTANCE OF DATA, ANALYSIS AND REPORTING IN MANAGING THE COVID-19
RESPONSE - THE OTTAWA PUBLIC HEALTH EXPERIENCE

SPEAKERS (From Left to Right):

CAMERON KEYES
Director of Knowledge Exchange, Planning and Quality, Ottawa Public Health

CATHERINE MILLAR
Health Information Analyst, Epidemiology Team, Ottawa Public Health

Watch the recording HERE

ENTREPRENEURISM

PANELISTS (From Left to Right):

CHRIS CARVALHO BSc PMP
Principal Consultant, Carveira Group Consulting

JEROME ETWAROO
Director of the Coast Capital Innovation Centre, University of Victoria

Watch the recording HERE

VISUALIZATION AND AUTOMATED DISEASE ANALYTICS IN CANADA'S LARGE-SCALE
NATIONAL SARS-COV-2 GENOMIC SURVEILLANCE PROGRAM

KEYNOTE SPEAKER:

GARY VAN DOMSELAAR PhD
Chief Bioinformatics Scientist, The National Microbiology Laboratory & Associate Professor, Department of Medical Microbiology, University of Manitoba

IS DATA REALLY THE NEW OIL?

SPEAKER:

KAREN COURTNEY RN, PhD
Associate Professor, School of Health Information Science, University of Victoria

BEST PRACTICES IN THE MANAGEMENT OF DATA IN HEALTH RESEARCH – THE UNIVERSITY CONTEXT

SPEAKER:

EUGENIE LAM MA
Manager, Human Research Ethics, Office of Research Services, University of Victoria

CONVERSATIONAL AGENTS MEET MOBILE HEALTH APPLICATIONS

KEYNOTE SPEAKER:

KERSTIN DENECKE PhD
Professor of Medical Informatics, Institute for Medical Informatics (I4MI), Bern University of Applied Sciences

BC DIGITAL HEALTH STRATEGY UPDATE

SPEAKERS (From Left to Right):

SHANNON MALOVEC
VP Provincial Digital Health and Chief Digital Health Officer, BC Provincial Health Services Authority

MAY TUASON
Director, Clinical Architecture & Innovation, Digital Health Strategy Office, Provincial Digital Health Team, BC Provincial Health Services Authority, MOH

Watch the recording HERE

PUBLIC HEALTH INFORMATICS

KEYNOTE SPEAKER:

WILLIAM A. YASNOFF MD, PhD, FACMI
Adjunct Professor, Division of Health Science Informatics, Johns Hopkins, University Managing Partner, NHII Advisors

Watch the recording HERE

Faculty and Student Publications

Chatbots

Denecke K, **Borycki EM, Kushniruk AW.** What Can We Learn from Quality Requirements in ISO/TS 82304-2 for Evaluating Conversational Agents in Healthcare? Stud Health Technol Inform. 2022 Nov 3;299:245-250. [doi: 10.3233/SHTI220992](#). PMID: 36325870.

Consumer Informatics: Decision Making

Buchanan F., **Lai C.**, Cohen E., Milo-Manson G., Shachak A. Decision-making for Parents of Children With Medical Complexities: Activity Theory Analysis. Journal of Participatory Medicine 2022;14(1):e31699.
https://doi.org/10.2196/31699

Lai, C., Holyoke, P., Plourde, K. V., Yeung, L., & Légaré, F. (2022). Home care providers' perceptions of shared decision-making with older clients (and their caregivers): A cross-sectional study. Nursing & Health Sciences, 24(2), 487– 498.
https://doi.org/10.1111/nhs.12946

Lai C., Deber R., Jadad A., and Shachak A. (2021). Income-Generating Processes of Free Web-Based Digital Health Tools to Engage Patients: Qualitative Analysis J Med Internet Res 2021;23(2):e23654.
https://doi.org/10.2196/23654

Lai C., Holyoke P., Plourde K. V., Decary S., and Legare F. (2020) What older adults and their caregivers need for making better health-related decisions at home: A participatory mixed methods protocol. British Medical Journal Open 2020:10e:3039102.
https://doi.org/10.1136/bmjopen-2020-039102

Lognon, T., Gogovor, A., Plourde, K. V., Holyoke, P., **Lai, C.**, Aubin, E., Kastner, K., Canfield, C., Beleno, R., Stacey, D., Rivest, L.-P., & Légaré, F. (2022). Predictors of Decision Regret among Caregivers of Older Canadians Receiving Home Care: A Cross-Sectional Online Survey. MDM Policy & Practice, 7(2), 238146832211163.
https://doi.org/10.1177/23814683221116304

Toi, A. K., Charif A. B., **Lai C.**, Ngueta G., Plourde K. V., Stacey D., and Légaré F. Difficult Decisions for Older Canadians Receiving Home Care, and Why They Are So Difficult: A Web-Based Decisional Needs Assessment. MDM Policy & Practice 7, no. 2 (July 2022): 238146832211240.
https://doi.org/10.1177/23814683221124090

Consumer Informatics: Patient Engagement

Lai C., Jadad A., Deber R., Shachak A. (2019) Tools for engaging patients on

patient platforms: A classification framework. Studies in Health Technology and Informatics. 257: 256-260.
https://pubmed.ncbi.nlm.nih.gov/30741205/

Human Factors: Artificial Intelligence

Kushniruk AW Borycki EM. (2022). The Human Factors of Artificial Intelligence – Where Are We Now and Where Are We Headed? Lessons Learned From AI in Healthcare (pp. 3-15). In C El Morr (Eds.). AI and Society: Tensions and Opportunities. Taylor and Francis Group: Boca Raton, United States of America
https://www.taylorfrancis.com/books/edit/10.1201/9781003261247/ai-society-christo-el-Morr

Human Factors: Safety and Artificial Intelligence

Borycki EM Kushniruk AW (2022). Artificial Intelligence and Safety in Healthcare (pp. 17-32). In C El Morr (Eds.). AI and Society: Tensions and Opportunities. Taylor and Francis Group: Boca Raton, United States of America.
https://www.taylorfrancis.com/books/edit/10.1201/9781003261247/ai-society-christo-el-morr

Medically Assisted Dying

Courtney, K.L., Beuthin, R., **Bliss, G.** (2022). Exploring Population Age as a Utilization Variable in Medical Assistance in Dying in British Columbia, Canada. International Journal of Nursing and Health Science, 8(3), doi. 10.14445/24547484/IJNHS-V8I3P103

Mobile Health

Walsh J., Salt M. (October 6, 2022). Handheld Web Point of Care, Technical Lessons Learned. Muse Ontario Community Event: Vaughan Studios & Event Space, Vaughan, Ontario, Canada.

Standards: Sex and Gender

Courtney, K.L. (2022). Digital Health Systems – Let's Talk About Sex (and Gender). Healthcare Management Forum.
https://doi.org/10.1177/08404704221120865

Courtney, K.L. & Davison, K. (2022, September 29). Better Care for All of Us – Why Getting Sex, Gender and Sexual Orientation Information Right Matters. Healthcare Management Forum Official Blog
https://healthcaremanagementforum.wordpress.com/

Virtual Care

Noel Nikiema J., Stringer E., Moreault M.P., Pana P., Laverdiere M., Régis C., Denis J.L., Godard B., Breton M., Paré G., Shachak A., **Lai C., Borycki E.M., Kushniruk A.W.**, Motulsky A. Assessing the Quality of Direct-to-Consumer Teleconsultation Services in Canada. Studies in Health Technology and Informatics. 2022 May 25;294:935-936.
https://doi.org/10.3233/SHTI220628

Featured Books and Readings

Rezaei, N….**Kushniruk, A., Borycki, E., Monkman H.** et al. (2022). Integrated Science 2050: Multidisciplinarity and Interdisciplinarity in Health. In: Rezaei, N. (eds) Multidisciplinarity and Interdisciplinarity in Health. Integrated Science, vol 6. Springer, Cham. https://doi.org/10.1007/978-3-030-96814-4_30

Professional Development

Stay tuned for our Data Science and AI Workshops!

Health Information Science
Alumni Spotlight

Paul Payne, School of Health Information Science Alumni, is the **Chief Information Officer (acting), Health and Social Services, Government of Yukon.** Paul is currently leading the development of the digital health strategy for the Yukon's health and social services sector. The strategy will set a 10-year roadmap for digital transformation of service delivery, with a focus on supporting better outcomes and better experiences for patients and providers. Paul is also leading several other initiatives such as the implementation of an integrated electronic health record for the territory. He is also ensuring the privacy and security of personal health information through development of new privacy and security programs for health and social services.

Featured Co-op Students

During her last co-op placement, **Victoria Bustos-Gomez** had the opportunity to be part of the Planning Department at Island Health, which supports the strategic and operational planning for the authority, including the Senior Executive team and the Medical Health Officers in Public Health. Victoria conducted jurisdictional scans (across B.C., Canada, and abroad) and presented evidence to support the implementation of a primary care model in the Cowichan Valley. Victoria also gathered and interpreted extensive evidence about ongoing health trends as part of Island Health's external environmental scan.

Co-op Hiring

Considering a Co-op student? Typical Health Information Science Co-op jobs include:

✝ Business applications analyst
✝ Clinical applications student
✝ Go-live support
✝ Health business consultant
✝ Health data analyst
✝ Health systems analyst

The hiring process is simple. If you are interested in learning more about hiring please contact the Health Information Science Co-op office hiscoop@uvic.ca

Co-op Funding Opportunities

Co-op Funding Update: BioTalent
The Federal government's Student Work Placement Program (SWPP) provides up to 50% of the student's wages (to a maximum of $5,000) or 70% (to a maximum of

$7,000) for students from underrepresented groups which includes female STEM students, first year students, indigenous students, student with a disability, visible minorities and newcomers to Canada.

SWPP has 12 funding partners who deliver the funding across Canada based on industry sector. Each funding partner has different application processes and there are some slight differences in criteria.

- Consider applying to [BioTalent Canada](#)

Employers, uncertain if your job qualifies? Contact Colleen at 1-866-243-2472, ext. 218 or [askme@biotalent.ca](#)

- You have to apply for the funding before the student starts their job.
- Multiple grants are possible eg. Hire two students and receive two grants.
- Student eligibility: This Federal program is only available to students who are Canadian citizens, Permanent Residents or students who have refugee status. International students are not eligible for this funding.

Employers have told us that the application process takes 15-20 minutes to complete. Grants are allocated on a first-come, first-served basis so you are encouraged to apply as soon as possible. Should you not find a suitable student for your position, simply inform the funding partner that you do not need the grant.

Educational Program Deadlines

Graduate Degree Admission

Learn more about:

- MSc in Health Informatics
- Master of Nursing and MSc in Health Informatics
- PhD in Health Informatics

Apply by December 1st 2022 for September 2023 entry
[Read more](#) and [Apply Now](#)

Undergraduate Degree Admission

Learn more about:

- BSc in Health Information Science
- BSc in Health Information Science and Computer Science

Apply by January 31st 2022 for September 2023 entry
[Read more](#) and [Apply Now](#)

or contact [his@uvic.ca](#) for application information

Health Terminology Standards Graduate Certificate

Apply by June 1st 2023 for September 2023 entry
Read more and Apply Now

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Denis and Pat Protti Bursary

In 2004, a group of generous donors came together to honour Denis and Pat Protti's contributions to the Canadian healthcare system.

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Scholarships and Awards

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If you require financial aid, consider applying for the Health Information Science undergraduate and graduate awards and scholarships.

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We acknowledge and respect the ləkʷəŋən peoples on whose traditional territory the University of Victoria stands, and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day.