University of Victoria | Health Information Science

Digital Health Lives Here

Director's Message

In this issue we highlight some of our award winning students who have gained recognition for their amazing work in health informatics! We will also highlight a number of recent presentations and publications from faculty and students. Over the term we have been busy with hosting our spring seminar series and have had some great presentations (which are all available as recordings on the School's Youtube channel if you missed them). I wish you all a great rest of the term as we move into spring!

- **Andre Kushniruk**, Director and Professor of the School of Health Information Science

Awards and Recognitions
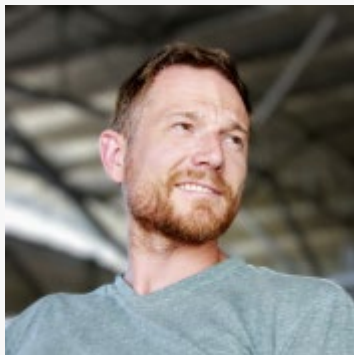
Congratulations to our award winning students!

Jarmila Vlasta Von Drak Thouvenelle Graduate Scholarship and **C.T.W. Memorial Fellowship for Indigenous Students**
Kelly Davison is a nurse informatician and doctoral student with a special interest in the interaction between technology (structural design and representation), social processes and systems, and health equity.

Paulette Lacroix Nursing Informatics Leadership Scholarship
Stephanie Cabrera has worked as a nurse in acute care settings across the USA and Canada. Stephanie is a double degree student in nursing and health informatics that has worked with open source and propriertary EHRs, locally and internationally.

Sheila Ryan and Eileen Ryan Award in Health Information Science
Desmond Hedderson is a practicing advanced care paramedic originally from northern Newfoundland. Desmond has worked in a variety of practice settings and, through this experience, realized that working with patient data was an area of paramedicine he has a passion for.

Martlet Chapter IODE Graduate Scholarship for Women
Evangeline Wagner is currently working towards earning her Master's in Health Informatics. Her research is focused on smart home systems in the home and how they can support dementia patients and their caregivers. Her additional research interests include health information systems safety, robotics, human factors, and assistive technologies.

Denis & Pat Protti Scholarship
Catherine Webster is an Information Technology Analyst in Radiology/Diagnostic Imaging and as a Registered Nurse. She chose UVic for graduate school specifically because of the combined Double Degree program in Nursing and Health Informatics.

Congratulations to Faculty on their Educational Research!

Dillon Chrimes, Simon Minshall and Abdul Roudsari received a HSD Internal Teaching Scholarship Grant. Chat bots are not commonly used in higher education, but this Health Information Science team says that automated digital assistants could benefit universities. The researchers will work to build decision-tree frameworks and test chat bots with structured equation modelling. The goal is to showcase the importance and uniqueness of seven programs across HSD and to support students' experiential learning with detailed program descriptions.

Congratulations to **Simon Minshall** for launching a new undergraduate course: **HINF 112: Introduction to Health Information Analysis**. The course explores a range of approaches and emerging methods for health data analysis for improving healthcare across a range of health information systems.

Faculty and Student Publications

Artificial Intelligence: 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](#)

Consumer Informatics

Antonio MG, Davis S, Smith M, Burgener P., Price M., Lavallee DC, Fletcher S, **Lau F.** Advancing Digital Patient-centered Measurement Methods for Team-based Care. Digital Health. 2022;8. doi:[10.1177/20552076221145420](#)

Joseph AL, Monkman H, Kushniruk A, Quintana Y. Exploring Patient Journey Mapping and the Learning Health System: Scoping Review. JMIR Hum Factors. 2023 Feb 27;10:e43966. doi: [10.2196/43966.](#) PMID: 36848189.

Decision Support Systems

Chrimes D. Using Decision Trees as an Expert System for Clinical Decision Support for COVID-19 Interact J Med Res 2023;12:e42540 DOI: [10.2196/42540](#)

Health Informatics Education

Bichel-Findlay J, Koch S, Mantas J, Abdul SS, Al-Shorbaji N, Ammenwerth E, Baum A, **Borycki EM,** Demiris G, Hasman A, Hersh W, Hovenga E, Huebner UH, Huesing ES, **Kushniruk A,** Hwa Lee K, Lehmann CU, Lillehaug SI, Marin HF, Marschollek M, Martin-Sanchez F, Merolli M, Nishimwe A, Saranto K, Sent D, Shachak A, Udayasankaran JG, Were MC, Wright G. Recommendations of the International Medical Informatics Association (IMIA) on Education in Biomedical and Health Informatics: Second Revision. Int J Med Inform. 2022 Oct 29;170:104908. doi: [10.1016/j.ijmedinf.2022.104908](#)

Monkman H, Mir S, Borycki EM, Courtney KL, Bond J, Kushniruk AW. Updating Professional Competencies in Health Informatics: A Scoping Review and Consultation with Subject Matter Experts. Int J Med Inform. 2022 Dec 20;170:104969. doi: [10.1016/j.ijmedinf.2022.104969.](#)

Human Factors

Borycki EM, Kushniruk AW. Health Technology, Quality and Safety in a Learning Health System. Healthc Manage Forum. 2023 Mar;36(2):79-85. doi: [10.1177/08404704221139383](#). Epub 2022 Dec 23. PMID: 36562483; PMCID: PMC9975897.

Kushniruk AW, Borycki EM. Human Factors in Healthcare IT: Management

Considerations and Trends. Healthc Manage Forum. 2023 Mar;36(2):72-78. doi: 10.1177/08404704221139219. Epub 2022 Nov 27. PMID: 36847593; PMCID: PMC9975892.

Virtual Care: Hospital at Home

Denecke K, May R, **Borycki EM, Kushniruk AW** (2023) Digital health as an enabler for hospital@home: A rising trend or just a vision? Front. Public Health. 2023 Nov 11:1137798. doi: 10.3389/fpubh.2023.1137798

Spina, S., Riddle M., Haddadi R., Bourke B, Thompson L., **Borycki E,** Forbes D, Hainstock T., Harder C., Humber N., **Kushniruk A,** McMillan T., Tierney S., Mullins Z. Patients' and family caregivers experiences with a newly implemented hospital at home program in British Columbia, Canada. World Hospital at Home Congress, Barcelona, Spain, March 30- April 1, 2023.

Faculty and Student Presentations

Coxon, T., **Borycki E., Kushniruk, A.,** Joseph, R., Turner, G., Piperno, N., Davidson, B., Nanaos, J. McKay, R. (2022). Digital Transformation Trends Driving Connected, Secure, and Futuristic Patient-centric Care. Health and Human Services National Insight – Fall Edition. Public Sector Network. Ottawa, Canada, November 22, 2022.

Recent Graduate Student Oral Examinations

Melissa Tan (2023, January). "Electronic Referrals to Initial Oncology Consultation: A Scoping Review" (Research Project). MSc Program. Supervisor: Alex Kuo. Committee Member: Don Juzwishin.

Professional Development

Certificate Program in Health Terminology Standards Info Session Fall 2023 Entry

Want to improve the sharing of patient information across health care systems?
If you are involved with or have an interest in health terminologies and standards, interoperable electronic health record, and clinical coding and classification, then our [Certificate Program in Health Terminology Standards](#) is for you.

The University of Victoria's Certificate Program is a one-year, part-time program with four courses delivered through weekly online evening classes and a virtual workshop. Graduates of this program are eligible for the [Canadian College of Health Information Management (CCHIM)](#) Terminology Standards Specialist Certification.

The application deadline is June 1, 2023 for September 2023 entry.

Join us for a Certificate Information Session via Zoom:
Wednesday, March 29th, at 12pm PT / 3pm ET
[Zoom Link](#)
Meeting ID: 859 9218 3081
Password: 692340

Virtual Healthcare: Trends and Drives

Learn about [Virtual Healthcare: Trends and Drives](#) from **Neel Majumder,** Senior Leader at the Office of Virtual Health, Health Services Authority.

Hospital at Home

Learn about [Hospital at Home](#) from **Dr. Sean Spina**, Adjunct Assistant Professor with the School of Health Information Science and Co-Lead of the Island Health HaH Evaluation

Books and Toolkits

Interested in **Best Practices for Electronic Medication Reconciliation Implementation**, check out the "Paper to Electronic MedRec Implementation Toolkit 2nd Edition" co-developed by School of Health Information Science Faculty **Alex Kuo, Helen Monkman, Elizabeth Borycki and Andre Kushniruk**.

Health Information Science
Alumni Spotlight

Alumna **Rachel Fellner** works with the CMIO and Associate CMIO to set medical staff structures, strategy, and engagement processes surrounding the implementation and use of the Island Health's Electronic Health Record (EHR).

Xinh Ta worked with Professor John Chelsom at Seven Informatics to test the scalability of the open source CityEHR system. She created documentation/teaching materials in preparation for a new release of the cityEHR.

EXPERIENTIAL LEARNING
& CO-OP EMPLOYMENT

Featured Co-op Students

Neha Johal shares her experience doing a co-op with BC Children's and Women's Hospital.

Check out her HINF Co-op Story **HERE**

Interested in doing a Co-op term yourself or hiring a UVic HINF Co-op Student? Check out our Co-op Overview with our Co-op Coordinator, **Jason Bond!**

Hiring a Health Information Science Student for Co-op

Ready to hire a Health Information Science co-op student? The hiring process is simple. Students are skilled, enthusiastic, and ready to work for organizations like yours!

Contact the Health Information Science Co-op office hiscoop@uvic.ca if you are interested in learning more about hiring!

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

Undergraduate Degree Admission

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

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

or contact his@uvic.ca for application information

Graduate Degree Admission

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

Apply by **December 1st 2023** for **September 2024** entry
[Read more](#) and [Apply Now](#)

or contact hisgrad@uvic.ca for application information

Health Terminology Standards Graduate Certificate

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

Donors

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

Apply Now!

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.

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