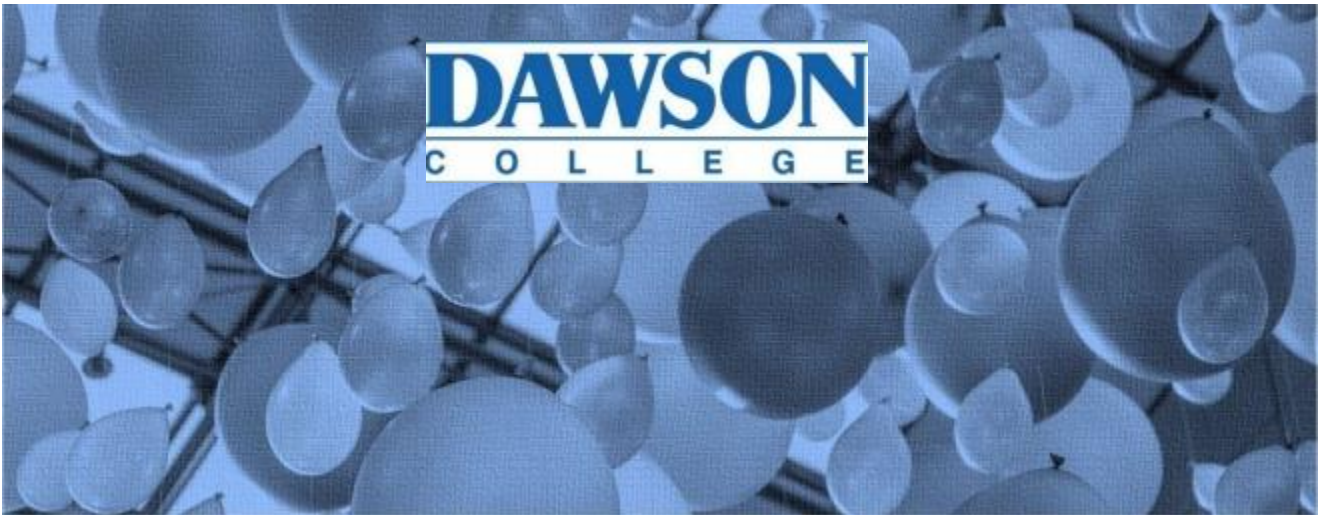


**ANNUAL RESEARCH  
REPORT  
2021-2022**



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## MESSAGE FROM THE DEAN OF ACADEMIC DEVELOPMENT



We are excited to present the accomplishments of Dawson's Research Community in this 2021-2022 Annual Research Reports, and we should be proud of the dedication and perseverance of our faculty and staff. Indeed, Dawson's very core lies in the devotion of our community to educate our students, enrich our environment, and engage with our society. This is echoed in our researchers' current research interests.

We are proud to acknowledge support from the Research Support Fund, which enables us to support a research environment that attracts talented teacher-researchers and facilitates partnerships and collaborations for research at the College.

It is safe to say that many of us did not expect our lives to be altered in the way it has. That the pandemic and current social, political, economic, and global events have shaken us to the core would be an understatement. And yet, our research community collectively took this opportunity to reflect on how they can contribute to the well-being of their fellow humans, how to mentor students in an equitable, inclusive manner, how to bring in diversity and justice to their research, and how to serve and improve the very foundations of our society. Our research community has taken upon themselves to pursue and empower others with knowledge. In 2021-2022, 18 Dawson researchers invested themselves in 28 research projects. Collaborations between departments were created; partnerships between institutions in Quebec, Canada, and abroad were solidified; relationships with private companies were established; and co-operations with local, provincial, and federal NGOs grew. This teamwork, emphasising innovation through knowledge-creation and mobilisation, only enriches us as we ford ahead into uncharted territory, shaping a more equitable, sustainable, and just society.

In this report, I invite you to explore these projects and initiatives that illustrates the remarkable creativity in which our researchers and teachers contribute to our society. Your dedication, passion, and vision to expand knowledge and promote scholarship and best practices is both felt and appreciated by your colleagues, your students, and by the whole Dawson community, and for that, we are grateful.

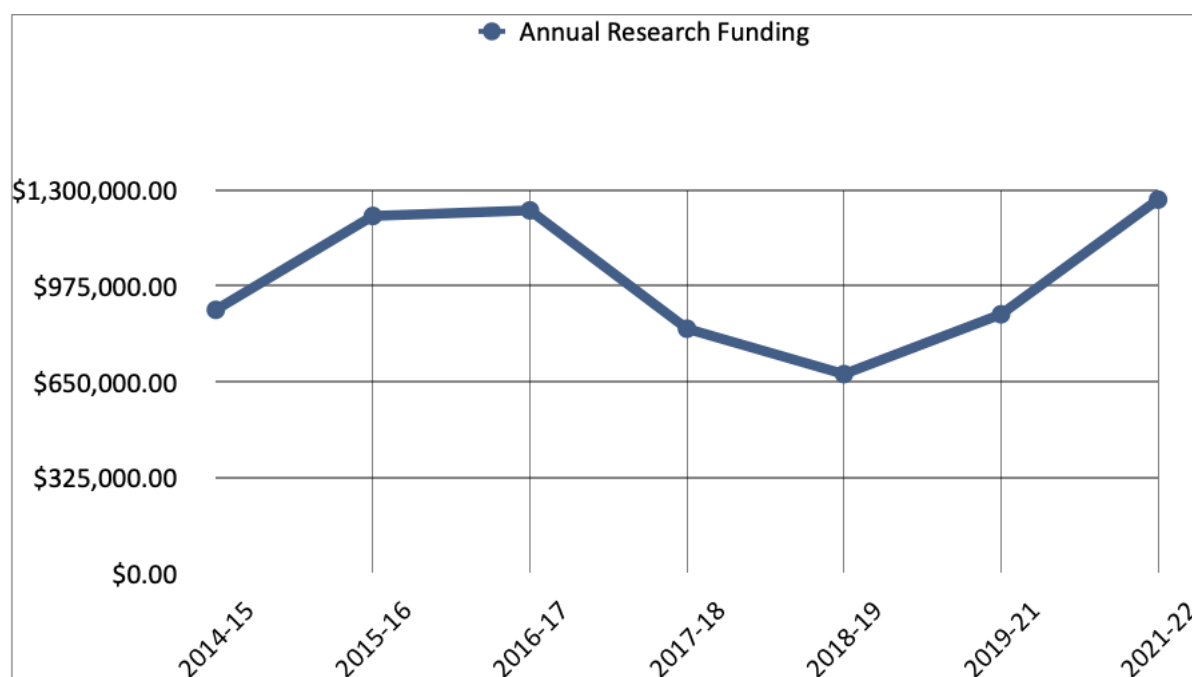
Catherine LeBel

Dean of Academic Development

## RESEARCH HIGHLIGHTS

Perhaps because of the ongoing COVID-19 pandemic, the Dawson Research Community has increased their research output: 9 projects were completed, a number of papers were published; research was presented at conferences; and new collaborations--whether between Dawson researchers, researchers at other institutions, and with external partners—were being formed

In total, there were 28 grant-funded projects underway, 9 with external partners, supporting 18 researchers. The total funding, including release and in-kind contributions, was approximately \$1,267,311—a \$290,940 increase from last year.



## RESEARCH SUPPORT FUND

Dawson College acknowledges support from the Tri-Council Research Support Fund (RSF). The Research Support Fund assists Canadian postsecondary institutions with the expenses associated with managing the research funded by the three federal research granting agencies. The Government of Canada allocates a portion of research grants from federal agencies received by researchers to their home institutions each year. RSF grant funds are used to offset salaries for the Research Office staff and professional development activities in research administration. These staff play a central role in identifying and advertising funding opportunities, ensuring grant applications are complete and admissible, tracking institutional and REB approval, ensuring compliant post-award administration, and internal benchmarking and report writing. The full public disclosure of funds statement for this year and previous years is available on the [Dawson Research website](#).

# DAWSON RESEARCH ACTIVITIES 2021-2022

## SOCIAL SCIENCE AND BUSINESS TECHNOLOGIES

### ECONOMICS

#### ANDREW BAUER

William Davis, Andrew Bauer and Papa Daouda A. Diene (2021) *Managing Senegal's Oil and Gas Revenue*. Natural Resource Governance Institute. Online in [English](#) and [French](#).

Australian Broadcasting Corporation – [Are Sovereign Wealth Funds the best way of safeguarding the future?](#) (April 2021)

Andrew Bauer and Sarah Daitch (2021) “Non-renewable Natural Resource Wealth Management and Distribution in Canada: National, British Columbia, Northwest Territories, Quebec” in *Sovereign Wealth Funds, Local Content Policies and CSR: Developments in the Extractives Sector* (eds. Eduardo G. Pereira, Rochelle Spencer and Jonathan W. Moses). Springer.

#### WORKU ABERRA

Wrote the following for *e-International Relations*, an electronic journal: “[Biden's Blunder on Ethiopia](#)”

### POLITICAL SCIENCES

#### DÓNAL GILL

In 2021, Dónal Gill published the book chapter: “[Swift's criticism of the narrative of progress in Gulliver's voyage to Laputa](#)”: in the book “The Artistic Foundations of Nations and Citizens”

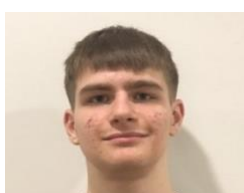
### PSYCHOLOGY

#### ANICK LEGAULT

##### ***Research grants awarded***

- SSHRC Partnership grant title: Post-secondary students’ initiatives through social media networks during the COVID-19 pandemic: Do they help? In partnership with the Quebec Association for Equity and Inclusion in Post-Secondary Education (AQEIPS).

##### ***Involvement of students in research***



Francesco Salvo

Francesco Salvo-

Francesco is a student in the psychology profile at Dawson College.

### **Conference presentations given:**

- Legault, A., Havel, A., & Wileman, S., in collaboration with Jorgensen, M. (2021, June 3). ADHD challenges: Get by with a little help from your apps [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.
- Legault, A., & Gravel, C., en collaboration avec Jorgensen, M., Ruffolo, O., Harvison, M., Salvo, F., Ruffolo, E., Le réseau de recherche Adaptech et le Collège Dawson. (2021, 15 décembre). Enseignement et apprentissage dans l'enseignement supérieur à l'ère de la COVID-19 : une synthèse des connaissances [Présentation pour les activités de suivi]. Programme Actions Concertées, Québec, Qc, Canada.
- Legault, A., & Gravel, C., in collaboration with Jorgensen, M., Salvo, F., Ruffolo, O., & Harvison, M. (2022, January 12). Teachers and students' feedback on online teaching/learning during COVID-19 and the future of education in an ever-changing technological landscape [Conference presentation]. Intercollegiate Ped Days, Montreal, Qc, Canada.
- Legault, A., Jorgensen, M., & Ruffolo, O., in collaboration with Gravel, C., Salvo, F., Harvison, M., & Ruffolo, E. (2022, January 14). Student-Initiated Social Media Groups in Education: Helpful and Sustainable? [Conference presentation]. Intercollegiate Ped Days, Montreal, Qc, Canada.

### **CATHERINE FICHTEN**

Catherine Fichten's research has two foci: postsecondary students with disabilities and sleep and its disorders. Her research on students with disabilities involves: technologies in postsecondary education, facilitators and barriers to academic success, free or inexpensive software useful to students with various disabilities, students' personal mobile technologies in the academic context, and the use of artificial intelligence in post-secondary education. Catherine's sleep research focuses on obstructive sleep apnea and primary care, insomnia and adherence to obstructive sleep apnea treatment, and sleepiness and driving safety.

#### **Grants**

##### **Social Sciences and Humanities Research Council (SSHRC)**

**2021-2022**

Engage Grant

Transforming tech tools for success: chrome and other browser extensions for post-secondary students with and without disabilities. (Awarded to Fichten, C., & Havel, A., in collaboration with Asuncion, J., Wileman, S., & AQEIPS - \$25,000).

##### **Social Sciences and Humanities Research Council (SSHRC)**

**2021-2022**

Engage Grant

Post-secondary students' initiatives through social media networks during the COVID-19 pandemic: Do they help? (Awarded to Legault, A., Fichten, C., & Havel, A., in collaboration with Asuncion, J., Wileman, S., & AQEIPS. \$25,000).

##### **Fonds de recherche du Québec - Société et culture (FRQSC)**

**2020-2027**

Dégagement d'enseignement pour la recherche au collégial : Centre d'études sur l'apprentissage et la performance (CEAP) (Awarded to Fichten, C. - \$329,000)

##### **Fonds de recherche du Québec - Société et culture (FRQSC)**

**2020-2027**

Regroupements stratégiques: Centre d'études sur l'apprentissage et la performance (CEAP) / Centre for the Study of Learning and Performance (CSLP). (Awarded to Venkatesh, V., Waddington, D., Gauvin, I., Fichten, C. & 30+ other CSLP members – infrastructure : \$1,800,500)

**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2022**

Synthèse des connaissances Enseignement et apprentissage dans l'enseignement supérieur à l'ère du COVID-19 : Une synthèse des connaissances. (Awarded to Legault, A. & Fichten, C. and collaborators Havel, A., Asuncion, J., & Wileman, S. - \$50,000)

**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2022**

Projets de recherche en équipe en milieu collégial: Technologies mobiles pour le plus grand groupe d'étudiants en situation de handicap au Québec : Étudiants ayant un trouble déficitaire de l'attention Avec / sans hyperactivité (TDAH) (Awarded to Fichten, C., Legault, A., & Havel, A. - \$120,000)

**Montréal Centre for Higher Learning in Artificial Intelligence (PIA) / 2020-2022**

AI Le Pôle montréalais d'enseignement supérieur en intelligence artificielle (PIA). How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies? (Awarded to Fichten, C., Schmid, R., Libman, E., Legault, A., Havel, A., & King, L. - \$100,000)

**Social Sciences and Humanities Research Council (SSHRC) 2020-2021**

Engage Grant

Facilitators and barriers of technologies in accessing NEWLY online courses by post-secondary students with and without disabilities: The COVID-19 experience. (Awarded to Fichten, C., Havel, A., Libman, E., & Amsel, R., in collaboration with Legault, A., Asuncion, J., Wileman, S., & AQEIPS - \$25,000).

**Ministère des Transports du Québec - Transports, Mobilité durable 2019-2021**

(et Électrification des transports, Québec) Programme d'aide financière du Fonds de la sécurité routière. L'apnée du sommeil et la conduite automobile: EEG, simulateur de conduite et micro-sommeils. (Awarded to Rizzo, D., Creti, L., Fichten, C., Bailes, S., & Libman, E. - \$172,655).

**Refereed Publications 2020-2021**

2022 Fichten, C., Jorgensen, M., Havel, A., Vo, C. & Libman, E. (2022). AI-based and mobile apps: Eight studies on post-secondary students. *Journal on Technology & Persons with Disabilities*, 10, 97-114.

2022 Fichten, C., Jorgensen, M., Havel, A., Legault, A., & Budd, J. (2022). Academic performance and mobile technology use during the COVID-19 pandemic: A comparative study. *Journal of Post-Secondary Education and Disability*, 35(1), 61-76.

2021 Fichten, C., Havel, A., Wileman, S., Jorgensen, M., Arcuri, R., & Ruffolo, O. (2021). Digital tools faculty expected students to use during the COVID-19 pandemic in 2021: Problems and solutions for future hybrid and blended courses. *Journal of Education and Training Studies*, 9(8), 24-30. <https://doi.org/10.11114/jets.v9i8.5310>

2021 Rizzo, D., Libman, E., Baltzan, M., Fichten, C., Bailes, S. (2021). Impact of the COVID-19 pandemic on obstructive sleep apnea (OSA): Recommendations for symptom management. *Journal of Clinical Sleep Medicine*, 17(3), 429-434. <https://doi.org/10.5664/jcsm.8922>

2021 Fichten, C., Pickup, D., Asuncion, J., Jorgensen, M., Vo, C., Legault, A., & Libman, E. (2021). Current state of the research on artificial intelligence-based apps for post-secondary student with disabilities. *Exceptionality Education International*, 31(1), 62-76.

**Book chapters**

2022 Fichten, C. S., Havel, A., Tremblay, M., & Arcuri, R. (in press). [The cart before the horse: Accessibility practice comes before accessibility research](#). In J. Madaus (Ed.), *Handbook of Higher Education and Disability*. Elgar Publishing.

## Reports

2022 Gulian, T., Blackburn, M.-E., & Fichten, C. (2022). [Pour une meilleure contribution de la recherche collégiale aux défis économiques et sociaux de demain](#). Ministère de l'Économie et de l'Innovation.

2021 Concordia's CSLP Systematic Review Team. (2021). [Systematic review: How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies](#).

## Conference Presentations

2022 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2022, March 14-18). *The use of browser extensions as AT: Are we there yet* [Conference presentation]. 37th Annual CSUN Assistive Technology Conference, Anaheim, CA, United States.

2022 Fichten, C., Jorgensen, M., Havel, A., & Vo, C. (2022, March 14-18). *AI based and mobile apps: Six studies on post-secondary students* [Conference presentation]. 37th Annual CSUN Assistive Technology Conference, Anaheim, CA, United States.

2021 Arcuri, R., Fichten, C., Legault, A., Jorgensen, M., & Gravel, C. (2021, June 3). *A picture can be worth 1000 words . . . unless it's a PDF* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

2021 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2021, November 15-19). *Browser extensions for all: "We're different, we're the same"* [Conference presentation]. 24th Annual Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Fichten, C., Asuncion, J., Jorgensen, M., Havel, A., Ruffolo, O., Arcuri, R., Harvison, M., Salvo, F., Vo, C., & Wileman, S. (2021, November 15-19). *Academic impact of the Covid-19 pandemic on post-secondary students with and without disabilities* [Conference presentation]. 24th Annual Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Fichten, C., Jorgensen, M., Arcuri, R., Vo, C., Budd, J., Legault, A., & Havel, A. (2021, June 3). *Are AI-based virtual assistants such as Siri, Alexa, and Google Assistant ready for college?* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

2021 Fichten, C., Jorgensen, M., King, L., Lussier, A., Havel, A., & Harvison, M. (2021, June 21). *Smartphones go to college* [Virtual poster presentation]. Canadian Psychological Association 81st Annual Convention, Montreal, QC, Canada.

2021 Havel, A., Jorgensen, M., Harvison, M., & Fichten, C. (2021, June 1-3). *Everything you wanted to know about research on ICT and inclusive pedagogy but didn't know whom to ask* [Conference presentation]. CRISPESH Virtual Symposium, Montreal, QC, Canada.

2021 Jorgensen, M., Wileman, S., Fichten, C., & Havel, A. (2021, November 15-19). *How has Covid-19 affected mobile tech use by students with disabilities* [Conference presentation]. 24th Annual Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Rizzo, D., Bailes, S., Huynh, N., Lavigne, G., Baltzan, M., Grad, R., Libman, E., & Fichten, C. (2021, October 28-30). *How has the COVID-19 pandemic affected treatment for individuals with OSA?* [Virtual poster]. 2021 Canadian Sleep Society (CSS) Virtual Conference.

2021 Bailes, S., Rizzo, D., Fichten, C., Creti, L. & Libman, E. (2021, June 21). *Depression, anxiety and insomnia after 7 years of untreated obstructive sleep apnea* [Interactive poster]. Canadian Psychological Association 2021 Annual National Convention, virtual conference.

2021 Fichten, C., Libman, E., Rizzo, D., Bailes, S., & Creti, L. (2021, October 28-30). *Difficulty initiating or maintaining sleep and insomnia in PAP adherent and non-adherent individuals with OSA: A prevalence study* [Virtual poster]. 2021 Canadian Sleep Society (CSS) Virtual Conference.

## **Proceedings**

2021 Fichten, C., Libman, E., Rizzo, D., Bailes, S., & Creti, L. (October 29, 2021). Difficulty initiating or maintaining sleep and insomnia in PAP adherent and non-adherent individuals with OSA: A prevalence study. *Canadian Sleep Society Abstract Book* (pp. 31-32). Canadian Psychological Association.

2021 Rizzo, D., Bailes, S., Huynh, N., Lavigne, G., Baltzan, M., Grad, R., Libman, E., & Fichten, C. (2021, October 28-30). How has the COVID-19 pandemic affected treatment in individuals with OSA? *Canadian Sleep Society Abstract Book* (p. 86). Canadian Psychological Association.

## **Talks**

2022 Havel, A., Fichten, C., & Jorgensen, M. (2022, January 12). *10 easy things you can do to make your course more accessible to students with disabilities* [Conference presentation]. Intercollegiate Ped Days, Montreal, QC, Canada.

2021 Libman, E., & Fichten, C. (2021). *Our research saga*. Psychosocial Research Weekly Rounds, Jewish General Hospital, Montreal, QC, Canada.

2021 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2021, November 12). *Browser extensions for all* [Webinar]. Association québécoise pour l'équité et l'inclusion au postsecondaire (AQEIPS).

2021 Fichten, C., Jorgensen, M., & Legault, A., in collaboration with Vo, C., Pickup, D., Martiniello, N., & Concordia's CSLP Systematic Review Team. (2021, April 7). *The intel on AI: Adaptech looks at post-secondary students with disabilities and artificial intelligence* [Invited speakers]. CRISPESH Midi-Conférence, Montreal, QC, Canada.

2021 Fichten, C., Jorgensen, M., Pickup, D., Schmid, R., & Libman, E. (2021, December 15). AI project objectives, goals, and accomplishments: How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies [Invited speakers]? Last meeting of the PIA community of practice "Training Projects," Montreal, QC, Canada.

## **Creative Output**

2021 Jorgensen, M., Arcuri, R., Fichten, C., Ruffolo, O., & Chiarelli, L. (2021, September 24). [How assistive technology can benefit students with disabilities](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Fichten, C., Havel, A., Wileman, S., Harvison, M., Ruffolo, O., Arcuri, A., & Chiarelli, L. (2021, September 24). [Offer inclusive course delivery with accessible materials and tools](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Fichten, C., Ruffolo, O., Harvison, M., & Chiarelli, L. (2021, September 24). [Post-secondary students and mental health](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Havel, A., Fichten, C., Ruffolo, O., Harvison, M., & Chiarelli, L. (2021, September 24). [Create an inclusive teaching environment](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Vo, C., Fichten, C., Havel, A., Arcuri, R., Ruffolo, O., & Chiarelli, L. (2021, September 24). [How to make captioning accessible](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Vo, C., Fichten, C., Havel, A., Arcuri, R., Ruffolo, O., & Chiarelli, L. (2021, September 24). [How to write accessible emails](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Wileman, S., Fichten, C., Havel, A., Harvison, M., Ruffolo, O., Arcuri, R., & Chiarelli, L. (2021, September 24). [Develop an inclusive course design with assessments](#). Adaptech Research Network, E-Access Concordia.

### ***Student Involvement in Research***

#### **2 Cegep students**

- Abi Vasseur
- Frankie Salvo

#### **4 undergraduate students**

- Maegan Harvison
- Rosie Arcuri
- Olivia Ruffolo
- Christine Vo

#### **1 graduate student**

- Mary Jorgensen

#### **1 postdoctoral student**

- Dorrie Rizzo

### ***Appointments***

- Member: Executive Board **Centre for the Study of Learning and Performance (CSLP)**
- McGill University Adjudicator: Banting Postdoctoral Fellowship Competition
- Member of Research Grant Adjudication Committees
  - New Frontiers in Research Fund, Exploration 2021 competition (NFRFE 2021).
  - Social Sciences and Humanities Research Council: PEG COVID-19 Committee C
  - Social Sciences and Humanities Research Council: Connection Grants Committee 4A

### ***Review for journals***

- International Journal of Disability, Development and Education
- Behavioral Sleep Medicine

### ***Recognitions***

2021 Fichten, C. (2021). Appointed to the executive board of Concordia University's Centre for the Study of Learning and Performance (CSLP), Montréal, QC, Canada.

2021 Fichten, C. (2021). Invitation to participate in the consultation initiated by the Ministère de l'Économie et de l'Innovation (MEI) as part of the development of the next Quebec Research and Innovation Strategy (QRIS).

### ***INTERNATIONAL RESEARCH COLLABORATIONS***

#### **Israel**

Dr. Tali Heiman	The Open University of Israel	2006-present
Dr Dorit <a href="#">Olenik-Shemesh</a>	The Open University of Israel	2006-present

U.K.	Dr Jane Seale	Open University	2015-present
	Dr Chetz Colwell	Open University	2015-present
	Dr Tim Coughlin	Open University	2015-present

U.S.A.	Dr Sheryl Burgstahler	University of Washington	2015-present
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### ***SYLVIA COX***

Sylvia Cox's research accomplishments in the past year focus on behavioural and neurobiological mechanisms involved in drug-seeking behaviour and risk for addiction in both drug and non-drug users using Positron Emission Tomography (PET) (Iqbal et al., 2022) and functional magnetic resonance imaging (fMRI) (D'Amour-Horvat et al., 2022). In a longitudinal birth cohort, she has identified a high-risk trajectory for substance use during adolescence characterized by impulsive traits and altered responses to reward and punishment (Cox et al., 2021). These individuals are being followed prospectively using multimodal neuroimaging (PET, fMRI, rsMRI and dMRI) to identify behavioural and neurobiological factors that affect the development of early onset, commonly comorbid conditions (Iqbal et al., 2022). In the past year Sylvia Cox obtained a CIHR project grant (as a co-investigator) to continue following this cohort (see details below).

**Peer reviewed publications in scientific journals:**

- Cox, S.M.L., Castellanos-Ryan, N., Parent, S., Benkelfat, C., Pihl, R.O., Vitaro, F., Boivin, M., Tremblay, R.E., Leyton, M., Séguin, J.R. (2021) Externalizing Risk Pathways for Adolescent Substance Use And its Developmental Onset: A Canadian Birth Cohort Study. *Canadian Journal of Psychiatry*. 66 (10: 887-896).
- Iqbal, M., Cox, S.M.L., Jaworska, N., Tippler, M., Castellanos-Ryan, N., Parent, S., C., Dagher, A., Vitaro, F., Brendgen, M., Boivin, M., Pihl, R.O., Côté, S., Tremblay, R.E., Séguin, J.R., Leyton, M. (2022). A Three-Factor Model of Common Early Onset Psychiatric Disorders: Temperament, Adversity and Dopamine. *Neuropsychopharmacology*. 47(3):752-758.
- D'Amour-Horvat, V., Cox, S.M.L., Dagher, A., Kolivakis, T., Leyton, M. (2022) Cocaine Cue-Induced Mesocorticolimbic Activation in Cocaine Users: Effects of Personality Traits, Lifetime Drug Use, and Acute Stimulant Ingestion. *Addiction Biology*, 27(1).
- McQuaid, R.J., Cox, S.M.L., Ogunlana, A., Jaworska, N. (2021) The Burden of Loneliness in Canada: Implications of the Social Determinants of Health during COVID-19. *Psychiatry Research*, 296:113648.

**Book Chapters:**

Scala, S., Smart, K., Cox, S. M. L., & Leyton, M. (2021). PET Imaging of Type 5 Metabotropic Glutamate Receptors. In F. Olive (Ed.), [\*Metabotropic Glutamate Receptor Technologies, Neuromethods, vol. 164\*](#): Springer.

**Conference Proceedings:**

Iqbal, M., Cox, S.M.L., Jaworska, N., Tippler, M., Castellanos-Ryan, N., Parent, S., C., Dagher, A., Vitaro, F., Brendgen, M., Boivin, M., Pihl, R.O., Côté, S., Tremblay, R.E., Séguin, J.R., Leyton, M. A Three-Factor Model of Common Early Onset Psychiatric Disorders: Temperament, Adversity and Dopamine. Poster presented at:

- American College of Neuropsychopharmacology, San Juan, Puerto Rico. December 2021
- XIII International Symposium of Functional Neuroreceptor Mapping of the Living Brain, Digital. December 2021

**Grants:**

04-2021 to 04-2029: Co-investigator of Canadian Institute of Health Research (CIHR) project grant entitled "Prospective PET study in High-Risk Youth". This project grant was funded \$1,950,752 CAD for a period of 8 years.

**Student supervision:**

05-2021 to 04-2022: Grace Polkosnik, McGill University. Honours Project for course Research in Cognitive Science. Project title: "*Neurobiological correlates of externalizing traits and risk for substance use disorders*".

## LIBERAL ARTS

### BEVERLY SING

Beverly Sing submitted a calligraphy scroll to the 14<sup>th</sup> [Annual Japanese Calligraphy Competition in Canada](#), winning Silver.

**Title:** Two Poems from the Kokin Wakashu (#1091 & 1092)

**Genre:** Japanese Calligraphy Scroll

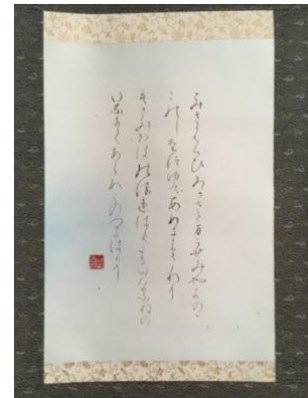
**Details:** SILVER

**Prize:** 14th Japanese Calligraphy Competition in Canada (2021)

Adjudication in Japan by a jury of renowned calligraphers. Selected for "its outstanding quality of line, composition and expression"

Virtual Opening Ceremony of the exhibition: 7 November 2021

Organizer of the Competition & Exhibition: Shodo Canada



*Two Poems from the Kokin Wakashu (#1091 & 1092)*



**Description:** Japanese Brush Calligraphy (Kana style)

Rubbed ink on Japanese washi paper

Mounted in Japan on a silk scroll

Two poems (#1091 & 1092) from the Kokin Wakashu, the 1st Imperial Anthology of Japanese Poetry (10th c.)

*Japanese calligraphy mounted on a silk scroll*

*Detailed view of the calligraphy*

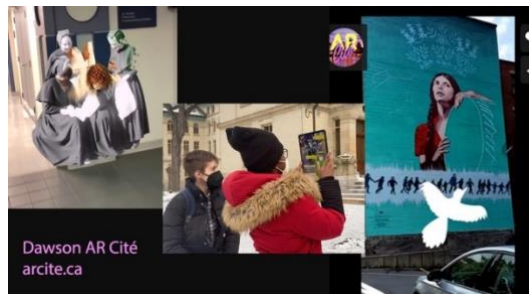
## ARTS, LITERATURE, AND COMMUNICATIONS

### CINEMA-COMMUNICATIONS

#### REISA LEVINE

##### *Projects Currently in Progress:*

*AR Cité* - [Augmented Reality for Education - A mobile app made by students](#), for students to learn more about the history and neighbourhood around Dawson College.



ECQ grant for Phase 1 project work Apr 2021 - Dec 2021

Collaborated with Ramona Ramlochand from Cinema | Communications

First public demo of the app at Cinema | Communications Media Night, Dec 3, 2021

Content development for locations including: Dawson library, Sherbrooke St. Doors, Mtl Forum, The Seville Theatre, Mural of Alanis Obomsawin.

ECQ grant for Phase 2 project work Jan 2022... continuing until June 2023

Collaborated with Bérengère Marin-Dubuard from Interactive Media Arts, Jiri Tucker from History (Classics), Mathilde Geromin - independent artist

Additional content development includes: Interview with filmmaker Alanis Obomsawin, research and development of the Joe Rose story, Dawson Community Pantry.

##### ***First Peoples' Post-Secondary Storytelling Exchange (FPPSE)***

Ongoing project website development and communications support

##### ***Conference Attendance:***

La semaine numérique QC 2021, Réalité Augmentée Québec (RAQ). Online version, April 9 - 16. Attended workshops and conference sessions related to Augmented and Virtual reality.

## FINE ARTS

#### NATALIE OLANICK

Writing In the Disciplines Fellowship. This resulted in a presentation at Pedagogical Day workshop October 15, 2021- Empowering and Motivating Students through better assignment design.

WID research project: Mapping Fine Arts Pedagogical Structure. There is a report, access to the MIO page that was created as a resource for teachers and the digital map that was created on Miro



## RACHEL ECHENBERG

### **Video Screenings 2021**

How to explain performance art to my teenage daughter.

Comment expliquer l'art performance à ma fille adolescente.

Oct. 21, 2021 [The Curatorial Incubator, v.17: On the Other Side – It's Heaven, Program #3 – Embodied Intimacies: Gesturing Towards Understanding](#), curated by Ashley Raghubir

Sept.11, 2021 [Inter Media Art Institute – The Age of Unreason](#) curated by Wanda Vander Stoop

### **Performance**

collaboration with Clara Worsnip

RLAP, September 11, 2021

Le Lieu, Quebec, QC

### **Collaborative Educational Project**

PHI Foundation for Contemporary Art

July 7-August 1, 2021

### **Residency**

*Seuls et Ensembles, créer du lien*, June 6- 26, 2021

collaboration with Sebastien Worsnip, curated by Martin Dufrasne

Ad Mare, Îles de la Madeleine

And more: [Rachel Echenberg News](#)

## ENGLISH



Article in the Fall 2021 edition of the  
Canadian Children's Book News magazine

## ANDREW KATZ

Andrew Katz published an [article in the Fall 2021 edition of the Canadian Children's Book News magazine](#). He was also awarded a 25K Canada Council for the Arts grant in Fall 2021 for a picture book project that he will be working on this coming summer and fall.

## ANNA LEWTON-BRAIN

PhD Thesis Successfully Defended McGill University 22 October 2021. "Metaphysical Music: A Study of the Musical Qualities & Contexts of the Poetry of John Donne, George Herbert, & Richard Crashaw"

Supervisor: Prof. Kenneth Borris. First Reader: Prof. Julie Cumming; Committee Members: Profs Paul Yachnin, Fiona Ritchie, Torrance Kirby, and Katherine Larson

- Review of Linda Phyllis Austern. [Both From the Ears & Mind: Thinking about Music in Early Modern England. Chicago](#): University of Chicago Press, 2020 for Seventeenth-Century News, vol. 79, 2021 Nos. 3&4. 103-107.

- Review of Katherine R. Larson. [\*The Matter of Song in Early Modern England: Texts in and of the Air\*](#). Oxford: Oxford University Press, 2019 for *Seventeenth-Century News*, vol. 79, 2021 Nos. 1&2. 27-32.
- "[Music and Mysticism in the Poetry of George Herbert.](#)" Presented on 8 April 2022 at "[The Reception of German Mysticism in Early Modern England](#)": International Conference sponsored by the Cambridge Centre for the Study of Platonism and the School of Religious Studies, McGill University," at Clare College, Cambridge, UK.
- "[Jimmy and Rosalia: Creating a folk opera from Handel and Helen Creighton.](#)" Live-streamed YouTube lecture presented with Nick Veltmeyer and Thomas Ayouti, for the [Massey Music Club](#), Massey College, University of Toronto, 20 April 2021.
- Premiere performance at Salle Bourgie, Montreal and Quebec tour of "[Jimmy and Rosalia: a Folk Opera](#)" for which I co-wrote the libretto with Nick Veltmeyer and sang in the chorus, 19-28 June, 2021, Salle Bourgie, Montreal.

## CHARLOTTE HUSSEY

"[Four Poems by Charlotte Hussey](#)," *The Ekphrastic Review*, July 1, 2021: "Venus of Laussel," "The Drunken Serpent," "Enheduanna, High Priestess of Ur," & "Frog-headed Heqet Speaks from a Dendera Nativity Scene".

## KAYLA FANNING

### **Attended two conferences:**

"The Ocritus' Idylls and the Serenading of Mystical Women: Toxic Modes of Seduction in Pastoral Literature." ICLLC International Conference on Language, Literature, and Culture, July 2021 – Awarded Best Presentation.

Kayla Fanning also received the "Concordia University Conference and Exposition Award" for the research presentation "Achieving Self-Governance: Detachment and Negotiation in Mary Lavelle." CAIS Canadian Association for Irish Studies Conference, June 2021.

## KRISTOPHER WOOFER



*Kristopher Wofter, PhD*

Kristopher Wofter, PhD, teaches courses on horror, the American Gothic and the Weird tradition in literature and the moving image in the English Department of Dawson College in Montreal. He is Editor-in-Chief of [Monstrum](#), and Co-editor of the book series *B-TV: Television Under the Critical Radar* (Bloomsbury). Recent publications include the collection, [Shirley Jackson: A Companion](#) (Peter Lang, 2021), nominated for a Bram Stoker Award, and [American Twilight: The Cinema of Tobe Hooper](#) (U of Texas Press, 2021), co-edited with Will Dodson.

Kristopher served for ten years (2007-2017) as co-chair of the Horror Area of the Popular Culture Association, is a member of the Global Horror Studies Archive and Research Network and the Society for Cinema and Media Studies and serves on the editorial board for the *Anthem Series on Exploitation and Industry in World Cinema* and for *Lexington Books Horror Studies*. He is also co-founder of the [Montreal Monstrum Society](#) and of the [Horror Reverie](#) symposia series. His current research focuses on the intersections of the Weird, eco-horror, and cosmic pessimism.

## **Research Grants**

2020-2024 FRQSC 5 course release for 4-Years

FRQSC (Fonds de recherche du Québec – société et la culture) Support for Research Teams (Soutien aux équipes de recherche) for the project *Horror in Media and Performance: Bodies, Histories and Affects*, conducted by the Collective for Research on Epistemologies and Ontologies of Embodied Risk (COÉRISC), composed of researchers from McGill, Concordia, Université de Montréal, John Abbott College, and Dawson College. Principle Investigator, Alanna Thain, McGill.

## **Research & Academic Awards**

- (2021) Bram Stoker Award Nomination for Superior Achievement in Non-Fiction for *Shirley Jackson: A Companion*

## **Refereed Publications**

(forthcoming 2024) Book Co-Editor (with Stacey Abbott, Adam Lowenstein, and Roger Luckhurst) and "Introduction." *The Routledge Companion to Horror*. London, Routledge.

(forthcoming 2024) Essay/Chapter. "Eco-Horror." *The Routledge Companion to Horror*, edited by Stacey Abbott, Adam Lowenstein, Roger Luckhurst, and Kristopher Woofte. London, Routledge.

(forthcoming 2023) Book Co-Editor (with Carl Sederholm) and "Introduction." *The Weird: A Companion*. Peter Lang.

(August 2022) Essay/Chapter. "Actuality in the Shadows: F.W. Murnau's *Nosferatu*, Pseudodocumentary, and Mockumentary Aesthetics." *Nosferatu in the 21<sup>st</sup> Century*, edited by Simon Bacon. Liverpool, UK: Liverpool University Press / Auteur.

(2022) Essay/Chapter (with Mikaela Bobiy). "'To Remember Forever to Forget': *Into Eternity* and the Anti-Anthropocene." *The Anthropocene and the Undead*, edited by Simon Bacon. Lanham, MD: Lexington Books, pp. 147-165.

(2021) Book Editor and "Introduction" (pp. 1-18). *Shirley Jackson: A Companion*. Oxford: Peter Lang

(2021) Essay/Chapter. "Long Twilight (Hosszú Alkony), Shirley Jackson, and the Eerie In-Between." *Shirley Jackson: A Companion*, edited by Kristopher Woofte. Oxford: Peter Lang, 265-282.

(2021) Book Co-Editor (with Will Dodson) and "Introduction" (pp. xiii-xxxiii). *American Twilight: The Cinema of Tobe Hooper*, edited by Kristopher Woofte and Will Dodson. Austin: University of Texas Press.

(2021) Essay/Chapter. "Tobe Hooper's Teenage Wasteland: Youth and Disillusionment in *The Funhouse*, *Invaders from Mars* and *Mortuary*." *American Twilight: The Cinema of Tobe Hooper*, edited by Kristopher Woofte and Will Dodson. Austin: University of Texas Press, pp. 29-42.

(2021) Essay/Chapter (with Anne Golden). "Unsettled Architecture and Avant-Garde Strategies in Tobe Hooper's *Down Friday Street*, *Toolbox Murders* and *Djinn*." *American Twilight: The Cinema of Tobe Hooper*, edited by Kristopher Woofte and Will Dodson. Austin: University of Texas Press, pp. 68-80.

## **Presentations and Lectures**

Guest Lecturer: (26 April 2022) "Cosmic Pessimism and Thomas Ligotti's 'The Small People'." Instructor, Mikaela Bobiy. Humanities. Dawson College. Montréal, QC.

Presenter: (16 April 2022) Paper. "*Friday the 13<sup>th</sup>: The Series*: Towards a Pulp-Horror Humanism in Syndicated 1980s Horror Television." Popular Culture / American Culture Associations National Conference. Virtual.

Presenter: (1 April 2022) Roundtable. "Eerie Theory: Horror Media Studies and the Weird." Foundations of Horror Studies: Assessing the Past, Charting the Future." Society for Cinema and Media Studies conference. Virtual.

Co-Organizer/Host: (18 February 2022). "Horror Reverie: A Celebration of 100 Years of *Nosferatu*."

Co-Organizer/Moderator/Host: "[Discussion of Tobe Hooper](#) (YouTube), featuring Joe Bob Briggs and Special Guests," streamed live on 15 October 2021, UTexas Press.

Presenter: (July and September 2021) Roundtable. "The Global Horror Studies Archive and Research Network." Global Horror Studies: Linking J-Horror to Asia. Kyoto, Japan. (Zoom)

## MERRIANNE COUTURE

Merrienne Couture contributed to The International Auto/Biography Association – Americas (IABAA) conference, Stories of Change|Stories for Change, which was held October 1, 2021. Her presentation was entitled "Unsettling: Annie Pootoogook's Vision."

## SARAH BURGOYNE

Sarah Burgoyne published a poetry collection with Coach House Books called *Because the Sun* which was nominated for the A.M. Klein Prize in Poetry



## FRENCH

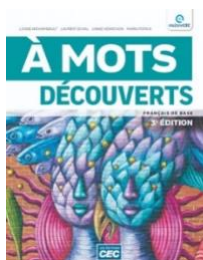
### ANNE-LAURE TEICHET

Anne-Laure Teichet presented a short film [La classe comode: une classe sans papier?](#) she produced and wrote in the Maison de la culture du Mont-Royal in February 2022.

Anne-Laure also published articles in [Profweb about hyflex classes](#). They are available in French and English:



### LAURENT DUVAL AND LYANE HENRICHON



Laurent Duval and Lyane Henrichon published a third edition of an existing manual in the last year.

Louise Archambault, Laurent Duval, Lyane Henrichon, and Maria Popica. *À mots découverts : Français de base*, 3<sup>e</sup> édition. Anjou : Les Éditions CEC, 2022.

## HISTORY AND CLASSICS

### ELIZABETH KIRKLAND

#### **Funding:**

Awarded FRQSC grant - Savoir et capital à Montréal, 1800-2000, Co-chercheure, Soutien aux équipes de recherche, 325 967\$.

Dégagement d'enseignement pour la recherche au collegial, Savoir et capital à Montréal, 1800-2000, 188 000\$.

#### **Publications:**

Kirkland, Elizabeth. "Citizens of the City: Women and Montréal's Municipal Election of 1910", *Histoire Sociale / Social History*, vol 54, no. 110 (2021), 43-67.

Kirkland, Elizabeth. "Marguerite Lamothe Thibaudeau", *Dictionary of Canadian Biography / Dictionnaire Biographique du Canada*, forthcoming.

#### **Conferences and Presentations:**

"From Upstairs to Downstairs: Uncovering the Hidden Lives of Servants in Montreal, 1880-1914", Dawson College Social Science Week, February 2022.

## HUMANITIES

### JENNIFER KOOPMAN

Published the following article: Koopman, Jennifer. "[Donal's Doric Skirmish and the Rise of the Critic Hero](#)." *Journal of Scottish Thought*. Vol. 12 (2020), 90-107.

### SUSAN-JUDITH HOFFMANN

#### **Articles:**

'Humboldt on Hope' forthcoming in *Hope and the Limits of the Self*, edited by Katerina Mihaylova and Anna Ezekiel, forthcoming 2022.

'Breathing Life into Primal Beauty: The Imagination at Work in Fichte', *Fichte Studien*, December 2021.

'Fichte and the Early German Romantics', in the *Brill Companion to Early German Romanticism*, edited by Elizabeth Millan and Judith Norman. Leiden: Brill Press, 2019

#### **Book Reviews**

Gerad Gentry and Konstantin Pollok, *The Imagination in German Idealism and Romanticism* for the Hegel Bulletin. Forthcoming in 2022.

Adam Buben, *Meaning and Mortality in Kierkegaard and Heidegger* for the Journal of the History of Philosophy, October 2020.

#### **Invitations to International Workshops 2022 of the Fichte Gesellschaft**

Fichte Workshop and Study Group in Rammenau, May 19-22 and in Munich July 27-30

#### **Papers and Commentaries Presented at Conferences**

Refereed Papers

'Feeling and Fichte's Account of Intersubjective Recognition', X Kongress der Internationalen J.G. Fichte-Gesellschaft, Aix en Provence, October, 2018.

## ILLUSTRATION

### MARC-ANDRÉ CRIGHT

#### ***Gaining Client experience in design class***

Meeting the Director of a short documentary film to receive the brief of the project

Understand the particular context of the creation of the film featuring the improbable creative and professional encounter between a composer in his seventies and a conductor in his twenties.

Presenting the concept to the client.

#### ***Branding for the Interior designer.***

Guest speaker in Interior design.

Discussing how to brand yourself for the freelancing and Industry jobs

How to write a short artist bio

Designs principles for portfolio creation

Critics of past portfolio to develop a critic mindset when creating a portfolio and branding elements

#### ***Conference day: Proactive Career, Student Success Conferences - for 3<sup>rd</sup> year Illustration students. February 24<sup>th</sup> 2022***

The students had the opportunity to listen during an all-day conference to three artistic career development experts of the illustration & visual art fields.

Sophie Casson is a worldwide renowned illustrator and artist coach in the fields of revenue diversification and grants writing.

Éric Dufresne Arbique, is a coordinator for continuing Formation at Culture Laval, his expertise in coaching allows professional artist an opportunity to finance their project and analyze their artistic process to apply to grants.

Félix Quevillon, from the artistic agency Artxterra is a specialist in negotiation, vernissages, and continuing formation in marketing for independent artists.

## INTERACTIVE MEDIA ARTS

### SHAWN BELL

Ongoing development of music generation software NetWorks and releases of new work: [NetWorks 9: Somnia vana](#), [NetWorks 8: Other Times](#).

Ongoing Collaboration with Liane Gabora, Maureen Medved (University of British Columbia), Steve DiPaola (Simon Fraser University) on "An Interactive 'Visual Diary' for Self--understanding" (Indra's Net). SSHRC, Insight Development Grant.

May 6: Zoom presentation of the NetWorks algorithm and musical results for Dr. Liane Gabora's Graduate students, University of British Columbia.

## THEATRE

### BRUCE LAMBIE

Stage Management for workshop development of mime theatre piece *The Sighlence of Skye* with Level 4 Theatre (April 2021)

Lighting Designer for development and presentation of Theatre for Young Audiences piece *Just a Game* with Rubber Tree Media (April -May 2021)

As sound engineer, co-published Act 2 of Radio Drama *Richard the Third* with Radio Drama Society of Montreal - piece recorded separately and distanced in quarantine and edited together!

Assisted with streamed video production of *Antigone*, Talisman Theatre (Oct 2021)

Stage Management for final development and presentation of mime theatre piece *The Sighlence of Skye* with Level 4 Theatre and Infnitheatre (Nov 2021) Stage Management and Lighting Design for *Chaos* with Dawson Prof. Theatre department (Feb-Mar 2022)

## VISUAL ARTS

### PETER BOUDREAU

#### **Publications:**

- “Byzantine Art in a Global Middle Ages” *Canadio-Byzantina* 33 (January 2022) (review essay)
- “A World of One’s Own: the Imaginative Geographies of Opicinus de Canistris.” In “Reworlding,” edited by Iraboty Kazi. Special Issue, *tba: Journal of Art, Media, and Visual Culture* 3 (December 2021): 52-71. (peer-reviewed)

#### **Conference Presentations:**

- “Harping on the Past: On the Sonic Potential of Jubal’s Lyre,” Canadian Conference of Medieval Art Historians, Toronto, Ontario, 25-26 March, 2022.
- “Beyond Archaization: Recalibrating Time in the Melbourne Gospels’ Canon Tables,” Byzantine Studies Conference, Cleveland, Ohio, 9-12 December, 2021.
- “The Incorporation of Islamic Interlace in Late Byzantine Manuscript Illumination,” part of “‘Pathways of Portability,’ 20 Years On: A New Frontier for Scholars of the Medieval Mediterranean,” Middle East Medievalists sponsored session at the Middle East Studies Association’s 55<sup>th</sup> annual meeting, (Online due to COVID-19), 29 November-3 December, 2021.
- “Working Overtime? The Melbourne Gospels’ ‘Classical’ Labours of the Months,” XIIèmes Rencontres Internationales de l’Association des étudiants du monde byzantine, Paris, 24-25 septembre, 2021.

## SCIENCE, MEDICAL STUDIES, AND ENGINEERING

### BIOLOGY

#### BRIAN MADER

Brian Mader supervised a project on ant feeding preferences. The idea was inspired by the lab group that Tonia de Bellis was working with at Con U. First year environmental Science students did a little urban ecology as part of their General Biology I class. They were instructed to design an experiment, set-up the experiment, collect and analyze their data and then finally write a full scientific article to indicate their results.

They analyzed ant feeding preferences on campus, comparing sugar, salt, and pure water. Within one lab period, they were able to observe multiple species of ant, on all three different diet substrates. Ants living further away from the ocean had been shown to prefer a saltier foods, since this was an element missing from their diet. Our students showed that there was no preference, suggesting that the salted parking lot may be the reason they did not go for a saltier diet. Also, ants on campus would have access to a variety of different foods brought in from our students.

#### KRISTEN HIRSH-PEARSON

Hirsh-Pearson K, Johnson CJ, Schuster R, Wheate RD, Venter O. 2022. [Canada's human footprint reveals large intact areas juxtaposed against areas under immense anthropogenic pressure](#). FACETS 7:398–419. Canadian Science Publishing. ([with the plain language summary](#))

#### TONIA DE BELLIS

##### *ECQ Grants*

- ECQ (Entente Canada-Québec) pour l'enseignement dans la langue de la minorité et l'enseignement des langues secondes: Titre du projet : Participer à des activités de recherche pour soutenir l'apprentissage en biologie et acquérir les outils nécessaires pour réussir à l'université

##### *Publication:*

- T. De Bellis, I. Laforest-Lapointe, K. A. Solarik, D. Gravel, S.W. Kembel. 2021. [Regional variation drives differences in bacterial and fungal communities associated with sugar maple \(\*Acer saccharum\*\) leaves and roots across a latitudinal range](#). *Ecology*

##### *Conference / seminar presentations:*

- T. De Bellis. (2022). Plants & their Microbes: facing the challenges of anthropogenic change. Environmental Seminar, Dawson College, Montreal, QC
- G. Muñoz, I.M.K. Eckert\*, T. De Bellis, JP Lessard, M. Nuñez. (2020) A network of networks, linking above and belowground ecosystem responses to range expansions. Ecological Society of America annual meeting. Salt-Lake USA (online).
- I.M.K. Eckert\*, G. Muñoz, T. De Bellis, JP Lessard, M. Nuñez. (2021) A single novel tree species reroutes community assembly and ecosystem processes in an alpine tundra. Ecological Society of America annual meeting. Salt-Lake USA (online).
- I.M.K. Eckert\*, G. Muñoz, T. De Bellis, JP Lessard, M. Nuñez. (2021) Invasive Species, Climate Change and Biodiversity: A focus on Canadian pines in Argentina. Sustainability Across Disciplines Conference, Concordia university, Montréal, Canada (online).

### **Student projects:**

I supervised this project that was submitted to DrJes

Title: Higher predation of insect prey in areas with higher plant richness on the Dawson College campus.

Authors: Cassandra Ciafro, Émilie de Grandpré, Liam Gaither, Eva Meloche, Allison Ojerio, Anna Dombrowski, Imad Boumenna, Marie-Pier Lalonde, Yoselin Lopez

10 Dawson Students took part in the Dawson College [Tree inventory](#) In collaboration with Prof Ziter (Concordia): Crina Malanciuc; Roni Juran, Teodor Alexe, Jérémie Lavoie, Éliane Dubois, Caroline Perron, Benjamin Tri-Khang Nguyen, Eric Gojan, Veronica Verenini, Megan Oleksiw

## **CHEMISTRY**

### **YANN BROUILLETTE**



Recently published an article in *Chemistry Views* magazine. The article titled "[The Molecular Marvels of Hulk and She-Hulk](https://www.chemistryviews.org/details/ezone/11339118/The_Molecular_Marvels_of_Hulk_and_She-Hulk/)" tackles the real chemistry underlying these fictional comic book heroes. The article is freely accessible at the following link:  
[https://www.chemistryviews.org/details/ezone/11339118/The\\_Molecular\\_Marvels\\_of\\_Hulk\\_and\\_She-Hulk/](https://www.chemistryviews.org/details/ezone/11339118/The_Molecular_Marvels_of_Hulk_and_She-Hulk/)

## **MATHEMATICS**

### **BENJAMIN SEAMONE**

#### ***Grants and Research Programs***

- FRQNT College Researcher Grant, Searching and surveillance in dynamic graphs
- NSERC Discovery Grant, How do forbidden induced subgraphs impact global phenomena in graphs?
- Graph Searching in Atlantic Canada, Atlantic Association for Research in the Mathematical Sciences collaborative research group

#### ***Journal articles submitted***

- N. Brüstle, S. Clusiau, V. Narayan, N. Ndiaye, B. Reed, B. Seamone. The Speed and Threshold of the Biased Perfect Matching and Hamilton Cycle Games, submitted.
- Articles published in conference proceedings
- N. Brüstle, S. Clusiau, V. Narayan, N. Ndiaye, B. Reed, B. Seamone. The speed and threshold of the biased perfect matching game, *Procedia Computer Science*, 195, 190–199, 2021. *Proceedings of the XI Latin and American Algorithms, Graphs and Optimization Symposium*.
- N. Brüstle, S. Clusiau, V. Narayan, N. Ndiaye, B. Reed, B. Seamone. The speed and threshold of the biased Hamilton cycle game, *Procedia Computer Science*, 195, 200–211, 2021. *Proceedings of the XI Latin and American Algorithms, Graphs and Optimization Symposium*.

### ***Supervision***

- Solomon Lo, Postdoctoral Fellow, Université de Montréal
- Victor Paardekoooper, PhD, Université de Montréal
- Frank Ramamonjisoa, PhD, Université de Montréal
- Gabriel Fortin-Leblanc, BSc, Université de Montréal (NSERC summer undergraduate research award)
- Yannick Gibeau, BSc, Université de Montréal (NSERC summer undergraduate research award)
- Xiaowei Yu, Dawson College (FRQNT-MITACS College-level Research Internship Award)
- Hristo Sandev, Dawson College (FRQNT-MITACS College-level Research Internship Award)
- Shawn Maor, Dawson College (FRQNT-MITACS College-level Research Internship Award)
- Vlad Calinescu, Dawson College
- Louis-Roy Langevin, Collège de Maisonneuve

### **MATHILDE HITIER**

- Along with Andreea Panait, is in the process submitting the last documents for the PAREA project.
- Participated in the CERME 12 congress (ERME—European society for Research in Mathematics Education—conference), held online from February 2nd to 5th. As part of the Working Group 14 (University Mathematics Education, which also includes post-secondary mathematics education), Mathilde presented a paper (“It all depends on the sign of the derivative”: A praxeological analysis of the use of the derivative in similar tasks in mathematics and mechanics) that was accepted to appear in the proceedings.

### **RICHARD FOURNIER**

#### ***Grants***

Richard Fournier’s current FRQNT-CRM research grant came to a finish in 2022 and he has applied for another one for 2022-2028 through my connection with CRM where I am a regular member. He is also an adjunct professor at DMS (Université de Montréal) at least until the end of 2023. Finally, together with Zhongan Lin, a former Dawson student, Richard obtained a FRQNT-MITACS summer research grant in 2021.

#### ***Publications***

- (with Robin Moore and Tony Wen), “Another proof of a result of Fournier and Giguère on certain series with positive and monotonic terms”, accepted for publication in Dawson Research Journal of Experimental Science, 2021
- (with Liam Gamache and Zhongan Lin), “Smooth functions not analytic in a real interval”, accepted for publication in Dawson Research Journal of Experimental Science, 2021
- (with Zhongan Lin), “A note on symmetric derivatives”, submitted for publication in Dawson Research Journal of Experimental Science, 2022
- (with Zhongan Lin), “Sur les hypothèses de la règle de L’Hospital”, submitted for publication in Bulletin de l’AMQ, 2022
- (with Ping Chieh Tu), “On some very divergent series of real numbers”, submitted for publication in Dawson Research Journal of Experimental Science, 2022
- (in preparation), “On the Rogosinski radius for polynomials of fixed degree” .
- Talks given
- Richard Fournier participated to two online meetings where he has given talks.
- Meeting 1: [Mini-course and Workshop on Interpolation and Sampling](#), September 2021
- Title of talk: [On a polynomial inequality of Schur](#), Hosted by the Fields Institute in Toronto
- Meeting 2: [CMFT Conference](#), January 2022
- Title of talk: An extremal problem for polynomials over the unit disc of the complex plane, Hosted by the UTFSM in Valparaíso (Chile)

## **Seminars**

Richard is a regular participant to many online seminars, for example CAVID (UK), Spectral Geometry in the Clouds (Québec), Colloque des mathématiciens du Québec, The CRM Analysis Seminar (organized by Dima Jacobson at McGill), The Number Theory Web Seminar (British Columbia), The Focus Program on Analytic Function Spaces and their Applications (organized by The Fields Institute in Toronto).

## **VICTOR KALVIN**

### **Journal articles:**

- V. Kalvin, Polyakov-[Alvarez type comparison formulas for determinants of Laplacians on Riemann surfaces with conical singularities](#), *J. Funct. Anal.* (April 2021), 44pp.
- V. Kalvin, [Spectral determinant on Euclidean isosceles triangle envelopes](#), *J. Geom. Anal.* (June 2021), 28 pp.,
- V. Kalvin, [Determinant of Friedrichs Dirichlet Laplacians on 2-dimensional hyperbolic cones](#), *Commun. Contemp. Math.*

### **Preprint:**

- V. Kalvin, [Determinants of Laplacians for constant curvature metrics with three conical singularities on 2-sphere](#), Preprint December 2021,

## **MECHANICAL ENGINEERING TECHNOLOGY**

## **ADAM KINGSLAND**

Emerging Technologies (241-602-DW-01) is listed on the Environment and Sustainability Certificate. Billed as a “campus greenification project,” the general objective of the projects listed below was to research novel environmental technologies and materials and incorporate them into projects that could be installed on Dawson’s campus. Some of the goals were for the students to make a tangible and measurable impact on our campus’ wellbeing, and environment and sustainability credentials.

### **Pollinator Posts**

**Description:** The pollinator post project will provide a place for bees to pollinate in the city, which is a place severely lacking in biodiversity. The pollinator post design can be mounted to existing parking infrastructure (e.g. sign posts, parking meters) in urban environments, giving human-made infrastructure an environmental purpose.

**Objective:** To research, design and build a pollinator post that can be installed almost anywhere in an urban environment, and which can be easily manufactured, maintained, and cleaned. A secondary objective is to educate those of the importance of bees and biodiversity on our campus and in our cities.

**Students:** Denise Lan Austria and Victoria Schwartz

### **Meal Worm Styrofoam Bioreactor**

**Description:** Meal worms (*Zophobas Morio*) are known to consume and thrive on diets consisting of polystyrene plastic. Meal worms could theoretically be used to consume and therefore eliminate through natural processes, the polystyrene waste created at Dawson College.

**Objective:** To research the biology of meal worms, the chemistry of polystyrene biodegradation in their gut, and study how effectively they can convert polystyrene by measuring carbon dioxide through controlled and instrumented experimentation.

**Students:** Kevin Huang, Hilary Margareth Dambia Anong, and Noah Carrière

### **Plastic Bottle Recycling: Second Life 3D Printer Filament**

**Description:** The Mechanical Engineering Technology department's 3D printers consume large quantities of plastic filament (PLA) every semester. Much of that material ends up as waste from by-products of the printed parts, or simply due to design and printing errors. This material is not recyclable by curbside recycling programs, so it is disposed of as waste. Most plastic beverage bottles are made of PET, which can be remanufactured into 3D printer filament using specialized equipment. If the Mech Tech department were to implement this technology, PLA would not be needed and plastic bottles would be given a second life, thereby reducing waste and expense.

**Objective:** To conduct a feasibility and impact study and design a machine to convert plastic bottles (PET) into 3D printer filament.

**Students:** Zackary Bouffard, Tristan Go, and Kevin Chinedu Okonji

### **UV Transparent Photovoltaic Cells**

**Description:** Traditional photovoltaic (solar) cell technology sees improvements in cost and efficiency year after year, however, these solar-energy harvesting devices still have significant limitations. They are completely opaque, require ideal weather conditions, and must be pointed directly towards the sun to convert light most efficiently into electricity. Ultra-Violet (UV) transparent solar cells improve upon these traditional solar cells in almost every meaningful way.

**Objective:** To research UV Solar Cells and propose an environmentally conscious manufacturing method, using food waste as a UV receptive luminescent substrate.

**Student:** Ailish Troughton

## **NURSING**

### **FIONA HANLEY**

- 12<sup>th</sup> May 2021 Invited to present at an on-line conference by Sick Kids Hospital Toronto as part of Nurses Week 2021.
- Invited speaker at Dawson College Class Gender Matters on climate and gender, September 2021
- [Granted Fellowship of the Canadian Nurses Association 14 October 2021.](#)
- Invited speaker at class Critical Thinking, Feminist Ways of Knowing class with Susan Hoffman, November 2021
- Université Laval mobilisation climat 9<sup>th</sup> February.  
[Climat, Action Santé](#)  
Facebook live event with 3 invited speakers from the health sector to talk about climate and health with students and faculty at Université de Laval.



This was the launch of the project "*Climate, Health, Action*", a campaign to mobilise people to take action on climate change. This initiative was organised by students from Laval University's

health sciences program in collaboration with the Littoral Research Chair with a number of faculty members from the faculties of medicine and nursing also supporting the project.



- Invitation to participate in a brainstorming workshop on single-use plastics in the health sector, (Zoom Atelier1b - Lab plastiques santé) hosted by ETS, Centre d'études et de recherches intersectorielles en économie circulaire. 16 February 2022.
- February and March 2022. Advisor for creation of green team at Montfort hospital, Ottawa with Janie Desroches, Director Quality and Patient support services  
[janiedesroches@montfort.on.ca](mailto:janiedesroches@montfort.on.ca)
- 23 March 2022. Speaker for webinar: [Climate and health systems. The Impact Of Climate Change On The Delivery Of Care | Climate, Health, And Healthcare](#): A Speaker Series For Health Professional Learners.
- 5<sup>th</sup> April 2022. Invited co-speaker with Linda Varangu from Canadian Coalition for Green Health Care for CANO/ACIO [Webinar for Oncology Nursing Day. Finding Hope in Difficult Times: Advancing Nursing Leadership in Climate Action](#). in collaboration with CASCADES Canada.
- 13 April 2022: Invited speaker with Linda Varangu of Canadian Coalition for Green Healthcare to co-present webinar for ISSA on innovations in healthcare in Canada in relation to climate. [ISSA Webinar: Social security, health care and environmental protection](#). Webinar-2022. [ISSA](#) Technical Commission on Medical Care and Sickness Insurance, International Social Security Association – ILO. , Geneva.
- 27<sup>th</sup> April 2022. College of Registered Nurses of Saskatchewan (CRNS). Invited speaker for live Facebook chat: Climate health and nursing.
- 1 June 2022. 1 June. Panellist: Networking Event: [Environmental Sustainability In Nursing: Building Connections And Inspiring Action](#).
- Ongoing: Collaborator in CIHR-funded multidisciplinary research team, [the Prenatal Environmental Health Education](#) (PEHE) Collaboration led by Dr. Eric Chrichton and Dr. Erica Phipps of University of Ottawa. The goal of this Collaboration is to improve understanding of factors that promote and inhibit the uptake of prenatal environmental health preventive care activities across diverse prenatal care, community, occupational and environmental contexts in Canada.
- Ongoing: [Quebec co-representative Canadian Association of Nurses for the Environment](#) (CANE/AIIE). I co-organised a series of webinars in English and French for CANE over the past academic year for nurses, nursing students and the general public.

## PHYSICS

### HÉLÈNE NADEAU

In recent years, Hélène Nadeau has investigated the plasticity of brains deprived of one of the senses using diffusion magnetic resonance imaging. With collaborators, she has explored the connectivity of hearing-impaired people from the point of view of graph theory and from the comparison of white matter fasciculi associated with language. This has led to two papers:

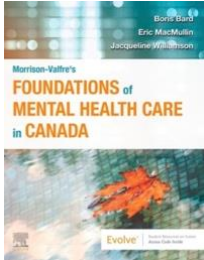
- 1) Campbell, E., Guberman, G., **Nadeau, H.**, Simon, M. Lazzouni, L., Moses, L., Théoret, H., Lepore, F. (2022) "Isolating visual and associative regions for sensory processing in early deafness using structural network analysis," submitted to *PlosOne*, and
- 2) Campbell, E., Guberman, G., **Nadeau, H.**, Simon, M. Lazzouni, L., Moses, L., Théoret, H., Lepore, F. (2022) "The impact of atypical language development on language fiber tracks," submitted to *Human Brain Mapping*.

### **Committee:**

She is a current member of the Dawson Research Ethics Committee and of the steering committee for the ACFAS colloquium “Étudiantes et étudiants du collégial: bastion de la relève en recherche”.

## **PHYSIOTHERAPY TECHNOLOGY**

### **SHARON CLEGG**



Sharon Clegg was one of the reviewers for the following textbook: *Morrison-Valfre's FOUNDATIONS OF MENTAL HEALTH CARE IN CANADA* by Boris Bard, Eric MacMullin & Jacqueline Williamson  
ISBN: 978-1-77172-233-9

### **VANESSA GANGAI AND ALISON GELINAS**

Bonjour! Hello Dawson! For many people living in the regions of Quebec, access to English healthcare services is extremely difficult. Through Health Canada funding by way of Dialogue McGill, Vanessa Gangai and Alison Gelinas are working to change this reality. Their project, “A Day in the Life, Healthcare Shadowing” aims to inform students about the many opportunities to study in English CEGEP healthcare programs. To do so, they organized exploratory field trips to Montreal where students visited multiple programs in a single day. Programs included Medical Ultrasound, Physiotherapy Technology, Radiation Oncology, Diagnostic Imaging, Biomedical Laboratory Technology and Nursing at Dawson College and Respiratory and Anaesthesia Technology and Special Care Counselling at Vanier College.



Healthcare Program Discovery kits were also created and delivered to high schools located in Estrie, Montérégie, Outaouais, Laurentides, and Capitale Nationale. Kits included self-guided activities that represented work in healthcare such as an anatomy scavenger hunt, stethoscope practice, a flexibility contest and more. Hard copies of the program brochures of all the English healthcare CEGEP programs and links to the project Instagram page were also included. A major benefit of this project was the establishment of several contacts with community partners and healthcare establishments that resulted in the creation of multiple internship placements in various Quebec regions.

## STAFF

### PEDAGOGICAL COUNSELLORS

#### DIANA RICE, PEACE CENTRE & COMMUNITY LIFE

Diana participated in the conference, *Light of Truth: A teach-in for social justice & racial equality*, in July - August 2021. Her panel was entitled “Youth Communities & Racial Justice”, and her presentation was “Systemic Racism in Educational Institutions & How to Make Change”.

Diana also had a chapter published, entitled “Decentralizing Consumption to Recenter the Land”

### SUPPORT STAFF

#### CHRIS BOYNE, PHOTOGRAPHY

##### **Exhibitions:**

- [Conveyor, solo exhibition](#), The New Gallery, Calgary Alberta, 2021
- [Conveyor, solo exhibition](#), Centres des arts actuels Skol, Montréal, Québec, 2021
- [white nances](#), group exhibition, 57W57Arts, New York, NY, USA, 2022 -
- *hard black stinker*, group exhibition, curated by Dider Morelli, Stewart Hall Gallery, Pointe-Claire, Québec, 2022 (upcoming)

##### **Funding:**

- Canada Council for the Arts, Research and Creation grant for the project *Porcupine Abyssal Plain. 2021-2022*

#### KATHERINE LEWIS, HUMAN RESOURCES

In December 2021, MOQDOC, the official publication of ARLIS MOQ (*Art Libraries Society of North America - Montréal / Ottawa / Québec*), published an article that Katherine wrote about adapting library services during the pandemic. It was researched during Winter 2021 while Katherine was completing a practicum remotely at the Rare Books, Osler, Art & Archives library at McGill. It covers some of the impacts of the mass closure of physical library sites and considers the implications with a focus on professional responses to the shift to remote services. As an institution of education and higher learning this research is very relevant to the community.

Here is a link to the article: [Adapting library services during a pandemic](#)

## PEDAGOGICAL RESEARCH

### DALC

[The Dawson Active Learning Community](#) (DALC) is a group of Dawson faculty from a variety of disciplines. The aim of the DALC is to improve teaching and learning through evidence-based Active Learning (AL) pedagogical practices, the development, design, and effective use of complementary educational technologies.

### SELMA HAMDANI

Selma Hamdani is a Dawson Active Learning Community (DALC) co-coordinator and the psychology profile coordinator. She co-led a research project on hyflex pedagogy together with Marie-Pierre Gosselin. This project explored the combined effects of comodal teaching, often referred to as HyFlex (hybrid flexible) teaching and Active Learning (AL) pedagogy. HyFlex pedagogy simultaneously incorporates two modes of teaching: in-person and online (synchronous and asynchronous), and has an enormous potential to enhance education accessibility, enrich digital education, and promote inter-institutional collaboration. Students voluntarily signed up to attend class in person, or synchronously online. Student feedback was collected via surveys throughout the semester. Preliminary analyses were presented to the Dawson Active Learning Community in April 2022, and a tool kit is available to all teachers interested in hyflex active learning pedagogy as of June 2022.

#### **Conference proceedings**

Hamdani, S., Kowalska, M., Akhrif, L., & Gosselin, M. P. *Flex your Classroom: a Pilot Project on HyFlex and Active Learning Pedagogy*. Supporting Active Learning & Technological Innovation in Studies of Education (SALTISE). June, 2022.

#### **Grant**

**Entente Canada Quebec**

**2021-2022**

Student Research Assistants

Michelle Kowalska, McGill University

Laila Akhrif, McGill University

### MARIE-PIERRE GOSSELIN

Marie-Pierre Gosselin worked in collaboration with Selma Hamdani on a hyflex research project conducted in different sections of a General Psychology course, where students onsite and online participated simultaneously in collaborative activities during class time. The researchers asked students to fill out questionnaires about their experience in this hyflex environment. The project was highlighted at a Dawson Active Learning Community gathering, and official findings are to be presented at the 2022 SALTISE conference.

#### **Conference proceedings**

Hamdani, S., Kowalska, M., Akhrif, L., & Gosselin, M. P. *Flex your Classroom: a Pilot Project on HyFlex and Active Learning Pedagogy*. Supporting Active Learning & Technological Innovation in Studies of Education (SALTISE). June, 2022.

## Research in Neuroscience Group

As teachers and researchers, we want to give diverse opportunities to our students to discover the real world of research. To this effect, we designed three courses. The Science option course: *Special topics in Physics: Introduction to Research in Brain Imaging* was in its second installment and substantially improved. The complementary course *Contemporary Issues: Introduction to Research in Neuroscience* has been built within the community of practice framework and was in its first installment. Both were given online during the Winter 2021 term. A new course: *Advanced Studies in Psychology: The Thinking Brain*, was introduced in the Summer term. The work done on the first two courses led to the SALTISE conference paper “*Reflections on two new and innovative courses where everybody teaches and learns*”, Proceedings of the 10<sup>th</sup> annual SALTISE Conference.

Jennifer Robert and Isabeli Pizzani Maurutto won third prize at the competition *Prix étudiants de l'ARC* during a colloquium at the *Congrès de l'ACFAS, Mai 2021* for their poster "Une étude de l'inhibition et de la flexibilité cognitives à l'aide du test de Stroop". The work was done during the summer of 2020.

During the school year 2021-2022, another cohort of over 60 students took part in extracurricular activities and nine experiments were set in early 2022. Two of these and one from the Winter 2021

led to posters submitted (and accepted) to the ACFAS colloquium 1 “Nouveaux enjeux pour la recherche collégiale”. The abstract for the posters, submitted in February 2022, are “Se changer les idées pour recharger son cerveau? Une étude encéphalographique”, by Inès Lamothe-Katrapani and Alexandru Cebotari; “Réactivité + Ordre → Émotions : équation potentielle de la perception de la valence affective”, by Léa-Mai Simard, Rosalind Guo, Denisse Dan and Najlaa Achouhal; and “Le bilingue, c’est dingue!”, by Eleanor Greenspan-Ardman, Zara Limpman, Alexandra Montpetit and Nathalie Nashen. In addition, an abstract for a 15-minute talk in ACFAS colloquium 212 : – “Étudiantes et étudiants du collégial : bastion de la relève en recherche” was submitted by Toky Raharison Ralambomihanta under the title “Développement d'un environnement Python pour rendre les neurosciences plus accessibles”. This was also accepted in February 2022.

A main focus of our group this past year was to develop a line of experiments in brain imaging accessible to any researcher through the use of portable and affordable EEG equipment. This innovative and pedagogical methodology was specifically designed for cégep students. We will continue to refine our EEG lab in the coming year so that the whole Dawson community can benefit from it.

## DAWSON INTER-PROFESSIONAL EDUCATION (IPE)

Krista Bulow, a faculty in the Physiotherapy Technology department and member of the Interprofessional education team, is writing on behalf of the Dawson Medical Technology Programs and the Interprofessional education (IPE) team to show off some of their deliverables over the past year.

Our building of IPE activities has increased with the additional help of a ECQ grant that has allowed a faculty member from each discipline to work towards the planning of a full day symposium for all our third-year students. It is important to note that all our activities are grounded by the IPE competencies that we have found through research. For more information, please consult the IPE Dawson webpage: <https://www.dawsoncollege.qc.ca/interprofessional-education/about-interprofessional-education/>

Below is a list of our implemented activities, soon to be implemented activities, and Faculty led presentations and workshops given either on ped day, interprofessional day, or a designated IPE workshop day.

### Student Activities implemented during the Fall 2021 and Winter 2022 sessions.

- **1<sup>st</sup> year Role clarification activity** with students from Physiotherapy Technology, Radiation Oncology, Social Service, and Ultrasound Technology.
- **2<sup>nd</sup> year Team functioning and Role Clarification** with Social Service and Physiotherapy Technology
- 1<sup>st</sup> year Winter semester: **Field trip to the Concordia University Cadaver Laboratory** by students from all the disciplines. Tied to the anatomy and biology competencies of each program.
- **IPE Podcast Channel**: currently building our bank of episodes. Ex: discussion with a third year Nursing and Physiotherapy Technology Student on the topic of study habits and what has worked best for them.
- **MTSS** (Medical Technology and Social Service) student club and Instagram page (hoping to build an official student group next year)

### New Student Activities to be implement in Fall 2022

- **IPE activity** during new student orientation: 1<sup>st</sup> year students  
For those that attend, they will be introduced to the concept of IPE and will already be introduced to their peers from the 7 medical technical programs.
- Semester Long Case: **a breast cancer journey**: 2<sup>nd</sup> year students

For all medical technology students in their fall semester of their 2<sup>nd</sup> year.  
A designed case that will touch upon the collaboration of each medical technology.  
Students will not only learn the role of each profession, they will also get a glimpse of the techniques that each discipline uses to treat the client throughout her cancer journey.

- **Interprofessional Education 3<sup>rd</sup> year Symposium:** November 11, 2022  
Topic; **Conflict Resolution, Communication and Collective Care**  
We are joining forces with the Theatre Department to create realistic conflicts that the students will work through with the help of didactic presentations.  
Students will work in IPE groups in the am. and pm. Sessions with the goal of resolving conflict and learning from one another's experiences.  
Possible Collaboration with Kim Simard and Patricia Romano who are currently working on their project "Creative Collective for Change".  
Full day symposium to be hosted at the AMC theatre and within the Dawson section of classes at the Forum.

#### **Professional Development for IPE Faculty**

- **IPE visit/workshop** to ESPA (Environnements avec simulateurs patients pour l'apprentissage) to learn about simulation  
Subsequent Simulation workshop designed and presented by Tim Miller, Maureen MacMahon and Arlene Hyland.
- [Interprofessional Day Presentation](#) by Cathy Roy and Krista Bulow: Creating case studies that incorporate diversity, equity, and inclusion; building empathy across the disciplines.
- [Pedagogical Day Presentation](#) by Cathy Roy, Krista Bulow and Tim Miller: Planning and designing common case studies across the disciplines; a brainstorm

## **CREATIVE COLLECTIVE FOR CHANGE**



*The goal is not to force compliance, which art can never do, but to persuade by creating moving experiences that prompt people to question the world as it is, imagine a world as it could be, and join together to make that new world real.*

Center for Artistic Activism

The Creative Collective for change is a new para-academic initiative at Dawson College. Its foundations began in the rich exchanges we have had in recent years with the faculty, students, and alumni, who have participated in the Resist Violence Community of Practice. This initiative, funded by a 2021-2023 ECQ Grant, aims to engage Dawson students, faculty, and staff, as well as artists and curators from the Montreal community, in participatory projects that explore social issues and positive change. These could take the form of workshops, pop-up exhibits, conference appearances and performances that address the intersections of racism, gender-based violence, poverty, ableism, homophobia, armed violence, ecocide, and systems of colonial violence. With many of us - students and staff alike – struggling to make sense of today's multiple crises, as well as the increasing demands for justice from those harmed by historical and ongoing wrongs, there is real need for educational institutions to take the lead in creating inclusive spaces for conversation and action.

#### **Our goals are two-fold:**

1. to develop and support creative student-centered projects that build inclusive spaces for personal reflection, constructive discussion, and creative problem-solving on today's complex social issues

2. to engage faculty and staff in the exploration and development of depolarizing pedagogical strategies that are transferable across a diversity of disciplines and programs.

Through our creative activities and projects, we aim to meaningfully engage students, faculty and staff on the very issues that contribute to the anxiety and cynicism of our age, seeking to foster deeper empathy, sustain our agency and resilience and build a sense of critical hope. What is arguably unique in this initiative is our central focus on how we can create constructive spaces inside and outside the classroom to tackle the complex and polarizing issues of today. What does it mean to engage in constructive dialogue? How can we bring multiple voices and stories into our classrooms in a way that recognize the dignity of all? What are the complexities and nuances that we need to keep in mind when addressing these topics?



This year's work has focused on building the foundations for the full launch of this project in Fall 2022. We have created a framework for a coherent, accessible, and flexible para-academic project, developed a project website and designed plans for our 2022-2023 creative activities. We have established and met with our Creative Collective for Change Advisory Committee (including representatives from Dawson faculty, students, and staff, as well as the external community) and Alumni Committee (composed of current students and recent graduates); the latter set up to ensure that this project is a student-centered endeavor. We have also began identifying and meeting with different groups from across the College and beyond, who will participate in the activities of the Creative Collective for Change as project partners. The year's work has also included some activities, identified below, that have been undertaken to spread awareness of our pedagogical approach and creative vision.

### ***Conference Presentations and Workshops***

This year's activities (April 1, 2021 – March 31, 2022)

- Vanessa Copeland (Collège Brebeuf), Sue Elmslie, Natalie Gibb (Heritage College), Dipti Gupta, Pat Romano, Kim Simard and Dawson students and graduates Anthony Bourgeois and Florencia Vallejo. "Teaching about Complicity: Reflecting on Creativity, Critical Thinking and Social Change." *Saltise Webinar*. March 25, 2022.
- Sue Elmslie, Dipti Gupta, Pat Romano, Kim Simard and Dawson students and graduates Anthony Bourgeois, Téa Castrataro, Florencia Vallejo. "Difficult Conversations: Is there room for making a mistake in the age of "cancel culture"? *Dawson Faculty Hub Workshop Series*. March 4 & 11, 2021.
- Sue Elmslie, Pat Romano and Kim Simard. "Bringing the Theory and Practice of Social Change into the Classroom." *9th Annual National Community College Peacebuilding Virtual Seminar*. November 6, 2021.
- Sue Elmslie, Anick Legault, Pat Romano, Kim Simard and Dawson Graduate Miryam Guirguis. "Bringing the Theory and Practice of Social Change into the Classroom." *Dawson College Peace Week*. September 15, 2021.
- Sue Elmslie, Anick Legault, Pat Romano, and Kim Simard. "Confronting Anger, Denial, and Cynicism in the Classroom: Embedding Nonviolence and Artistic Activism in our Pedagogy." *Association Québécoise de Pédagogie Collégiale*. June 11, 2021.
- Sue Elmslie, Anick Legault, Pat Romano, and Kim Simard. "Beyond Discomfort: Building Connection and Agency in the Classroom." *Saltise Annual Conference*. June 3, 2021

- Anick Legault, Pat Romano, Kim Simard and Dawson Graduate Miryam Guirguis. "Breaking Through: From Resistance to Finding Connection and Agency in the Social Justice Classroom." *CICan 2021 Connection Conference*. April 28, 2021.

New Content on <http://resist-violence.com>

- The Orange Book Project – An Ongoing Conversation about Truth and Reconciliation through an Online Journaling Project

**Blog postings:**

- Pat Romano, "How to Teach about Complicity in a Resist Violence Classroom," posted Sept 23, 2021.
- Pat Romano, "Beyond a Pedagogy of Discomfort," posted on January 10, 2021.

*Project Leads: Pat Romano (Humanities) and Kim Simard (Cinema-Communications)*





The Adaptech Research Network consists of a team of academics, students, and consumers. It is co-directed by **Catherine Fichten (Psychology, Dawson)** and **Jennison Asuncion. Alice Havel and Susie Wileman (Dawson Scholars in Residence)** and **Mary Jorgensen** are senior research associates involved in the research. Cegep, undergraduate and graduate students are members of the team. We conduct research involving college and university students with diverse disabilities (e.g., visual, mobility, hearing impairments, psychological, learning, and chronic medical disabilities). Areas of focus are use and accessibility of information and communication technologies in postsecondary education, facilitators, and barriers to academic success, free or inexpensive software useful to students with various disabilities, students' personal mobile technologies in the academic context, use of artificial intelligence in post-secondary education, and issues related to PowerPoint and its accessibility. The goal is to provide empirically based information to assist and inform decision making that ensures that new policies and new information and communication technologies reflect the needs and concerns of a variety of stakeholders. The outcomes will be better educational opportunities and learning experiences for college and university students with disabilities.

### Grants

#### Social Sciences and Humanities Research Council (SSHRC)

2021-2022

##### Engage Grant

Transforming tech tools for success: chrome and other browser extensions for post-secondary students with and without disabilities. (Awarded to Fichten, C., & Havel, A., in collaboration with Asuncion, J., Wileman, S., & AQEIPS - \$25,000).

#### Social Sciences and Humanities Research Council (SSHRC)

2021-2022

##### Engage Grant

Post-secondary students' initiatives through social media networks during the COVID-19 pandemic: Do they help? (Awarded to Legault, A., Fichten, C., & Havel, A., in collaboration with Asuncion, J., Wileman, S., & AQEIPS. \$25,000).



**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2027**

Dégagement d'enseignement pour la recherche au collégial : Centre d'études sur l'apprentissage et la performance (CEAP) (Awarded to Fichten, C. - \$329,000)

**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2027**

Regroupements stratégiques: Centre d'études sur l'apprentissage et la performance (CEAP) / Centre for the Study of Learning and Performance (CSLP). (Awarded to Venkatesh, V., Waddington, D., Gauvin, I., Fichten, C. & 30+ other CSLP members – infrastructure : \$1,800,500)

**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2022**

Synthèse des connaissances Enseignement et apprentissage dans l'enseignement supérieur à l'ère du COVID-19 : Une synthèse des connaissances. (Awarded to Legault, A. & Fichten, C. and collaborators Havel, A., Asuncion, J., & Wileman, S. - \$50,000)

**Fonds de recherche du Québec - Société et culture (FRQSC) 2020-2022**

Projets de recherche en équipe en milieu collégial Technologies mobiles pour le plus grand groupe d'étudiants en situation de handicap au Québec : Étudiants ayant un trouble déficitaire de l'attention Avec / sans hyperactivité (TDAH) (Awarded to Fichten, C., Legault, A., & Havel, A. - \$120,000)

**Montréal Centre for Higher Learning in Artificial Intelligence (PIA) / 2020-2022**

AI Le Pôle montréalais d'enseignement supérieur en intelligence artificielle (PIA) How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies? (Awarded to Fichten, C., Schmid, R., Libman, E., Legault, A., Havel, A., & King, L. – \$100,000)

**Social Sciences and Humanities Research Council (SSHRC) 2020-2021**

Engage Grant

Facilitators and barriers of technologies in accessing NEWLY online courses by post-secondary students with and without disabilities: The COVID-19 experience. (Awarded to Fichten, C., Havel, A., Libman, E., & Amsel, R., in collaboration with Legault, A., Asuncion, J., Wileman, S., & AQEIPS - \$25,000).

**Recognitions**

2022 Vasseur, A. (2022, February). [Adaptech Research Network](#) student [Récipient of the Bourse pour stage d'initiation à la recherche pour la relève au collégial](#). Fonds de recherche du Québec – Société et culture (FRQSC), Montréal, QC, Canada.

2021 Fichten, C. (2021). Appointed to the executive board of Concordia University's Centre for the Study of Learning and Performance (CSLP), Montréal, QC, Canada.

2021 Fichten, C. (2021). Invitation to participate in the consultation initiated by the Ministère de l'Économie et de l'Innovation (MEI) as part of the development of the next Quebec Research and Innovation Strategy (QRIS).



First-year student wins research bursary for work with Adaptech Research Network

### **Refereed Publications 2021-2022**

2022 Fichten, C., Jorgensen, M., Havel, A., Vo, C. & Libman, E. (2022). AI-based and mobile apps: Eight studies on post-secondary students. *Journal on Technology & Persons with Disabilities*, 10, 97-114.

2022 Fichten, C., Jorgensen, M., Havel, A., Legault, A., & Budd, J. (2022). Academic performance and mobile technology use during the COVID-19 pandemic: A comparative study. *Journal of Post-Secondary Education and Disability*, 35(1), 61-76.

2021 Fichten, C., Havel, A., Wileman, S., Jorgensen, M., Arcuri, R., & Ruffolo, O. (2021). [Digital tools faculty expected students to use during the COVID-19 pandemic in 2021: Problems and solutions for future hybrid and blended courses](#). *Journal of Education and Training Studies*, 9(8), 24-30.

2021 Fichten, C., Pickup, D., Asuncion, J., Jorgensen, M., Vo, C., Legault, A., & Libman, E. (2021). Current state of the research on artificial intelligence-based apps for post-secondary student with disabilities. *Exceptionality Education International*, 31(1), 62-76.

### **Book chapters**

2022 Fichten, C. S., Havel, A., Tremblay, M., & Arcuri, R. (in press). The cart before the horse: Accessibility practice comes before accessibility research. In J. Madaus (Ed.), *Handbook of Higher Education and Disability*. Elgar Publishing.

### **Popular press articles: magazines, newsletters, web sites, webinars, social media**

2022 Wileman, S. (2022, January 8). [Unequal access to assessments](#). *Montreal Gazette*.

2022 Gulian, T., Blackburn, M.-E., & Fichten, C. (2022). [Pour une meilleure contribution de la recherche collégiale aux défis économiques et sociaux de demain](#). Ministère de l'Économie et de l'Innovation.

2021 Concordia's CSLP Systematic Review Team. (2021). Systematic review: [How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies](#).

### **Refereed Conference Presentations**

2022 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2022, March 14-18). *The use of browser extensions as AT: Are we there yet* [Conference presentation]. 37th Annual CSUN Assistive Technology Conference, Anaheim, CA, United States.

2022 Fichten, C., Jorgensen, M., Havel, A., & Vo, C. (2022, March 14-18). *AI based and mobile apps: Six studies on post-secondary students* [Conference presentation]. 37th Annual CSUN Assistive Technology Conference, Anaheim, CA, United States.

2021 Fichten, C., Jorgensen, M., & Legault, A., in collaboration with Vo, C., Pickup, D., Martiniello, N., & Concordia's CSLP Systematic Review Team. (2021, April 7). Les applis basées sur l'IA sont-elles assez intelligentes pour les étudiants du post-secondaire [PowerPoint slides]. Adaptech Research Network. <https://adaptech.org/publications/les-applis-basees-sur-lia-sont-elles-assez-intelligentes-pour-les-etudiants-du-post-secondaire-powerpoint-slides/>

2021 Arcuri, R., Fichten, C., Legault, A., Jorgensen, M., & Gravel, C. (2021, June 3). *A picture can be worth 1000 words . . . unless it's a PDF* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

2021 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2021, November 15-19). *Browser extensions for all: "We're different, we're the same"* [Conference presentation]. 24th Annual Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Fichten, C., Asuncion, J., Jorgensen, M., Havel, A., Ruffolo, O., Arcuri, R., Harvison, M., Salvo, F., Vo, C., & Wileman, S. (2021, November 15-19). *Academic impact of the Covid-19 pandemic on post-secondary students with and without disabilities* [Conference presentation]. 24th Annual

Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Fichten, C., Jorgensen, M., Arcuri, R., Vo, C., Budd, J., Legault, A., & Havel, A. (2021, June 3). *Are AI-based virtual assistants such as Siri, Alexa, and Google Assistant ready for college?* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

2021 Fichten, C., Jorgensen, M., King, L., Lussier, A., Havel, A., & Harvison, M. (2021, June 21). *Smartphones go to college* [Virtual poster presentation]. Canadian Psychological Association 81st Annual Convention, Montreal, QC, Canada.

2021 Havel, A., & Wileman, S. (2021, May 4). *Heads up! How Adaptech's research findings can inform your practice* [Conference presentation]. CACUSS Accessibility and Inclusion Summit, Montreal, QC, Canada.

2021 Havel, A., Jorgensen, M., Harvison, M., & Fichten, C. (2021, June 1-3). *Everything you wanted to know about research on ICT and inclusive pedagogy but didn't know whom to ask* [Conference presentation]. CRISPESH Virtual Symposium, Montreal, QC, Canada.

2021 Jorgensen, M., Arcuri, R., Gravel, C., Harvison, M., Ruffolo, O., Salvo, F., & Vo, C. (2021, June 2-4). *What is it really like to be a student during the COVID-19 pandemic?* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

2021 Jorgensen, M., Wileman, S., Fichten, C., & Havel, A. (2021, November 15-19). *How has Covid-19 affected mobile tech use by students with disabilities* [Conference presentation]? 24th Annual Accessing Higher Ground: Accessible Media, Web and Technology Conference, Denver, CO, United States.

2021 Legault, A., & Havel, A. (2021, March 6-14). *The ADHD coach that's in your smartphone* [Conference presentation]. 36th Annual CSUN Assistive Technology Conference, Northridge, CA, United States.

2021 Legault, A., Havel, A., & Wileman, S., in collaboration with Jorgensen, M. (2021, June 3). *ADHD challenges: Get by with a little help from your apps* [Virtual poster presentation]. 10th Annual SALTISE Conference, Montreal, QC, Canada.

### ***Talks, interviews, presentations, and invited addresses***

2022 Havel, A., Fichten, C., & Jorgensen, M. (2022, January 12). *10 easy things you can do to make your course more accessible to students with disabilities* [Conference presentation]. Intercollegiate Ped Days, Montreal, QC, Canada.

2021 Arcuri, R., Vo, C., Fichten, C., Jorgensen, M., Harvison, M., & Vasseur, A. (2021, November 12). *Browser extensions for all* [Webinar]. Association québécoise pour l'équité et l'inclusion au postsecondaire (AQEIPS).

2021 Fichten, C., Jorgensen, M., & Legault, A., in collaboration with Vo, C., Pickup, D., Martiniello, N., & Concordia's CSLP Systematic Review Team. (2021, April 7). *The intel on AI: Adaptech looks at post-secondary students with disabilities and artificial intelligence* [Invited speakers]. CRISPESH Midi-Conférence, Montreal, QC, Canada.

2021 Fichten, C., Jorgensen, M., Pickup, D., Schmid, R., & Libman, E. (2021, December 15). *AI project objectives, goals, and accomplishments: How can virtual assistants and AI-based smartphone apps help post-secondary students with disabilities succeed in their studies* [Invited speakers]? Last meeting of the PIA community of practice "Training Projects," Montreal, QC, Canada.

2021 Asuncion, J., & Devon, J. (2021, May 6). [\*Accessibility insights with Jennison Asuncion and Joe Devon, co-founders of GAAD\*](#) [Webinar]. AbilityNet.

### ***Tests and Tools / Measures***

2021 Wileman, S., Havel, A., & Arcuri, R. (2021). [\*The word on tech during the pandemic: Students voice their concerns\*](#) [Coding manual]. Adaptech Research Network.

2021 Harvison, M., Arcuri, R., Ruffolo, O., & Jorgensen, M. (2021). [\*Insight into technologies used by students with ADHD \[Coding manual\]\*](#). Adaptech Research Network.

### **Creative Output**

2021 Jorgensen, M., Arcuri, R., Fichten, C., Ruffolo, O., & Chiarelli, L. (2021, September 24). [\*How assistive technology can benefit students with disabilities\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Fichten, C., Havel, A., Wileman, S., Harvison, M., Ruffolo, O., Arcuri, A., & Chiarelli, L. (2021, September 24). [\*Offer inclusive course delivery with accessible materials and tools\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Fichten, C., Ruffolo, O., Harvison, M., & Chiarelli, L. (2021, September 24). [\*Post-secondary students and mental health\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Havel, A., Fichten, C., Ruffolo, O., Harvison, M., & Chiarelli, L. (2021, September 24). [\*Create an inclusive teaching environment\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Vo, C., Fichten, C., Havel, A., Arcuri, R., Ruffolo, O., & Chiarelli, L. (2021, September 24). [\*How to make captioning accessible\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Vo, C., Fichten, C., Havel, A., Arcuri, R., Ruffolo, O., & Chiarelli, L. (2021, September 24). [\*How to write accessible emails\*](#). Adaptech Research Network, E-Access Concordia.

2021 Jorgensen, M., Wileman, S., Fichten, C., Havel, A., Harvison, M., Ruffolo, O., Arcuri, R., & Chiarelli, L. (2021, September 24). [\*Develop an inclusive course design with assessments\*](#). Adaptech Research Network, E-Access Concordia.

### **Student Involvement in Research**

#### **2 Cegep students**

- Abi Vasseur
- Frankie Salvo

#### **4 undergraduate students**

- Maegan Harvison
- Rosie Arcuri
- Olivia Ruffolo
- Christine Vo

#### **1 graduate student**

- Mary Jorgensen

### **Research Grant Committee member**

Fichten: Social Sciences and Humanities Research Council: PEG COVID-19 Committee C

Fichten: Social Sciences and Humanities Research Council: Connection Grants Committee

Appointments: Fichten

Member: Executive Board Centre for the Study of Learning and Performance (CSLP)

McGill University Adjudicator: Banting Postdoctoral Fellowship Competition

Member of Research Grant Adjudication Committees

New Frontiers in Research Fund, Exploration 2021 competition (NFRFE 2021).

Social Sciences and Humanities Research Council: PEG COVID-19 Committee C

Social Sciences and Humanities Research Council: Connection Grants Committee 4A

### **Review for journals: Fichten**

International Journal of Disability, Development and Education

## INTERNATIONAL RESEARCH COLLABORATIONS

Israel	Dr. Tali Heiman	The Open University of Israel	2006-present
	Dr Dorit Olenik-Shemesh	The Open University of Israel	2006-present
U.K.	Dr Jane Seale	Open University, UK	2015-present
	Dr Chetz Colwell	Open University, UK	2015-present
	Dr Tim Coughlin	Open University, UK	2015-present
U.S.A.			
Germany	Dr Sheryl Burgstahler	University of Washington	2015-present
	Björn Fisseler	FernUniversität Hagen	2015-present

## CRISPESH



**CRISPESH - a College Centre for Transfer (CCTT) in innovative social practices**

CRISPESH is affiliated with Dawson College and Cégep du Vieux Montréal. Having such a Centre dedicated to applied research and knowledge transfer allows the two colleges to increase the benefits of research in the field of disability and inclusion. When the synergy between research and teaching is created, the potential benefits to the colleges are immense.

To strengthen collective efforts to innovate, CRISPESH has intensified its recruitment of teachers and researchers and has a large concentration of teachers and researchers from its two affiliated colleges.

CRISPESH has also made an important investment in knowledge transfer, having delivered 14 lunch-and-learn lectures, 8 research training sessions, 4 podcasts, 2 happy hour panel discussions and 1 symposium, to name only a few. Some of the events are replayed on the [CRISPESH YouTube channel](#) or [CRISPESH website](#). Requests for a full access to the recordings or materials can be submitted to [crispesh@cvm.qc.ca](mailto:crispesh@cvm.qc.ca)

2021-2022 has been a year of extraordinary growth in several respects. The information below highlights CRISPESH's collaboration with Dawson College. To find out all the research activities of the Centre, please contact [Émilie Robert, director of Research and Knowledge Transfer](#), or [Roch Ducharme, director general, CRISPESH](#).

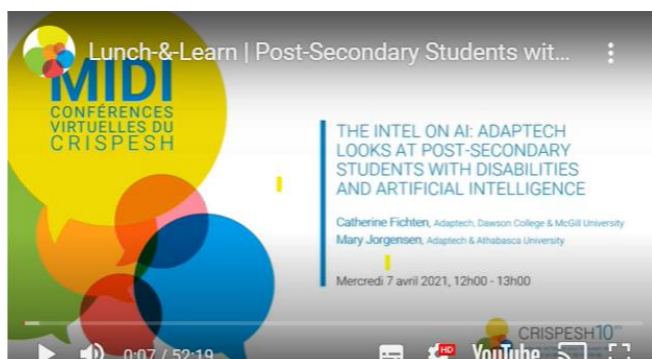
### ***Symposium: 10 years of inclusive pedagogy, building a path for the future***



Initiated by Catherine Soleil, Laure Galipeau and Effie Konstantinopoulos, co-founders of [UDL@Dawson](mailto:UDL@Dawson), a virtual symposium was hosted by CRISPESH from June 1 to 3, 2021, bringing together about 140 faculty members, researchers, pedagogical counsellors, administrators and students and other players in higher education. This event was an occasion for stakeholders to look back at 10 years of inclusive pedagogy in Quebec's colleges and universities, while bringing further the reflections to help the province foster increasingly inclusive pedagogical approaches. Participants shared their experiences, research findings and innovative practices, while bringing a critical and creative look at inclusive pedagogy and creating a space for the emergence of new communities of practice that shall revive this educational approach throughout the province.

This event also allowed [members of the organizing committee](#) and volunteers to expand their knowledge and skills in organizing and hosting an inclusive online scientific activity as well as to experience the backstage of a live virtual event.

## **Lunch-and-Learn**



Catherine Fichten (co-director of [Adaptech Research Network](#)), Mary Jorgensen (researcher at Adaptech) and Anick Legault (teacher in the department of psychology at Dawson College and researcher at Adaptech) were invited to one of the [14 lunch-and-learn events organized by CRISPESH](#) to give a presentation about post-secondary students with disabilities and artificial intelligence.

## **Research training**

Open to staff and students from Dawson College or Cégep du Vieux Montréal, research training offered by CRISPESH introduced participants to quantitative or qualitative research, knowledge transfer, knowledge synthesis, use of personal data in research, research ethics with First Nations. Members who missed the trainings and would like to have access to the content can make a request to [crispesh@cvm.qc.ca](mailto:crispesh@cvm.qc.ca)

## **Mentorship program**

CRISPESH launched a call for expression of interest in participating in the CRISPESH research projects developed as part of the *Chantier de la réussite éducative au collegial*, led by the Ministère de l'Enseignement supérieur. Several Dawson faculty members expressed their interest in research and wanted to contribute to inclusive education and the success of students with disabilities.

Four Dawson teachers were selected from the applications received to benefit from CRISPESH's first cohort of mentorship program. Émilie Robert, Roch Ducharme, Sylvie De Saedeleer, Ildikó Glaser-Hille, Audrey Bigras, Paul Turcotte and Christine Morin played the role of mentors and accompanied the mentees in achieving their research capacity building. From September to December 2021, mentees participated in five hands-on workshops, focusing on how to prepare project proposals to be submitted for funding by PAREA. In January 2022, mentor.e-mentee dyads helped greatly in finalising the application. Ahmad Banki (teacher in the department of economics at Dawson College) and Anick Legault (teacher in the department of psychology at Dawson College) proposed a project aiming to concrete guidelines with examples from a variety of disciplines which allow college teachers to administer, in an inclusive manner, untimed exams to measure the students' mastery of course competencies.

## **Research projects in collaboration with Dawson College**

Two teachers in the department of French at Dawson College, Catherine Soleil and Laure Galipeau, joined Marilou Charron (researcher at CRISPESH) and other research team members in mobilizing systematic knowledge synthesis methods to create an up-to-date picture of the issues, challenges and lessons learned about the educational success of students with invisible disabilities in post-secondary education. This exploratory review aims to identify gaps in knowledge to address the multiple challenges faced by students, teachers and services that support this population of students under study. Mapping of knowledge in this area also intends to inform all other college education stakeholders including the Ministère de l'Enseignement supérieur and the Fédération des cégeps, so

that they can develop necessary measures or programs adapted to the diversity of students, in such a way that a greater number of students will persevere in their studies and eventually obtain their degree.

One of CRISPESH's transversal research themes is "Inclusion and First Nations", emphasizing the needs to address intersectional barriers to the full participation of people with disabilities in every aspect of their life. Shannahn McInnis (researcher at CRISPESH) partnered up with two teachers from Dawson College, Benjamin Lander (department of history) and Marie-Eve DuFour (department of social service), in an applied research project development.

### ***Students in research***

CRISPESH provides research opportunities not only for teachers but also for students. Bee Bergeron, Marianne Meilleur-Bédard, Catherina Medeiros and Mélina Filion-Lauzon, four Dawson students have been working at CRISPESH, assisting researchers in a number of tasks that support the research activities.



## ELIZABETH CHARLES & RESEARCH TEAM

### CONFERENCES ORGANIZED

- My colleagues and I have organized the SALTISE Annual conference for 2021 and for 2022. <https://www.saltise.ca/saltise-conference/>.
- The 2021 SALTISE conference had over 400 attendees and was held online. See program [https://www.saltise.ca/wp-content/uploads/2021/05/2MB\\_Program\\_SALTISE-2021.pdf](https://www.saltise.ca/wp-content/uploads/2021/05/2MB_Program_SALTISE-2021.pdf)

### SOFTWARE DEVELOPMENT

- My team and I have expanded our digital platform tools **CourseFlow** & **myDALITE** both can be found through the link <https://mydalite.org/en/>

### PUBLICATIONS

#### ARTICLES

- Adams, R., & Charles, E.S. (accepted April, 2022). Successfully implementing inquiry-based labs: A case study for a college Waves and Modern Physics course. *Optical Engineering*, (vol., issue, TBA).
- Charles, E.S., Lenton, K., Dugdale, M., Lasry, N., Zhang, C., Whittaker, C. & Adams, R. (accepted, May, 2022). La participation des étudiant·e·s et l'apprentissage collaboratif révélés par les artefacts épistémiques. *Revue internationale du CRIRES: innover dans la tradition de Vygotsky*, (vol., issue, TBA).

### CONFERENCE PRESENTATIONS WITH PROCEEDINGS:

- Charles, E., Dugdale, M., Lenton, K., Zhang, C. & Adams, R. (June, 2022). Dear Pat: The role of error detection problems for learning effective peer feedback. To be presented at ISLS A *Wide Lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings*, 13th International Society of the Learning Sciences (ISLS) conference 2022, (TBA). Hiromisha, Japan: International Society of the Learning Sciences.
- Charles, E., Adams, R., Dugdale, M., Lenton, K., Brouillette, Y., Jackson, P., Lasry, N., & Zhang, C. (2021). *Fostering flow and feedback in the classroom: increasing the successful implementation of active learning instruction*. Presented at the International Conference on Education and Training in Optics and Photonics (ETOP), Invited Presentation, online session F1B.1, September 10, 2021.

### CONFERENCE

#### CONFERENCE PRESENTATIONS WITHOUT PROCEEDINGS:

- Charles, E., Lenton, K., Dugdale, M., Lasry, N., Brouillette, Y., Adams, R., Jackson, P., & Zhang, C. (2021). Orchestrating Feedback: How peer assessment mediates student engagement. Presented at the Colloque Annuel De L'Association Québécoise de Pédagogie Collégiale (AQPC), Rimouski, Québec, Canada, online session, June 11, 2021.

### WEBINARS & PODCAST

- Charles, E. & Choquette, J. (May 6, 2022). *CourseFlow: Supporting program revision and pedagogical design*. Presented for L'Association québécoise de pédagogie collégiale (AQPC).

- Charles, E. (2021, 12 janvier). Intercollegial Ped Day – CourseFlow: Better Planning and Management of Online or Blended Courses.

#### **KEYNOTES Talks**

- Charles, E.S. (May 2, 2022). *Building a Learning Community Using Research-Practice Partnerships: What can this tell us about equity in educational reform*. Keynote for Canadian Network for Innovation in Education (CNIE | RCIÉ) conference.
- Charles, E.S. (March 12, 2022). *Taking the Helm: Leveraging ideas from Active Learning research*. Keynote for Engaged Learning in Engineering (ELINE) conference at McGill University.

#### **INVITED TALKS**

- Charles, E.S., (Sept. 10<sup>th</sup>, 2021). Fostering Flow and Feedback in the Classroom: Increasing the successful implementation of active learning instruction. Education and Training in Optics & Photonics Conference. [Invited speaker](#) for the Teaching Optics and Photonics Using New Technologies session.
- Charles, E.S., (Nov. 5<sup>th</sup>, 2021). *Teaching for Successful learning: How to motivate students and improve course engagement*. Presented for Concordia University, Physics Department Colloquium Series.

#### **STUDENTS IN RESEARCH**

Our PAREA project has involved 6 students from Dawson in this research.

## SUSTAINABLE DAWSON



Sustainable Dawson had a busy and filling year!

### ***Presentations***

Chris Adam presented at:

1. National webinar on SDG Accord
2. National ImpAct conference - Canadian Sustainable Development Network, Waterloo University
3. Global S.T.A.R.S. Leaders – CICan annual Conference
4. ASSHE workshop: Personal and Campus-Wide Resilience

### ***Sustainable Happiness (SH)***

Certificate

2 Dawson staff groups (Jenn de Vera)

2 Dawson student (Jenn de Vera)

1 National Educator/directors group (Jenn de Vera)

Facilitator Training-Vanier College

Facilitator Training -\_Spring 22 Cohort

5 SH promotional videos created in Eng., Fr., and Spanish with Dawson Communication

SH feature article in [The Higher Ed Report](#) ranking world universities

### ***National Committees with CICan:***

- Sustainability office represents Canadian Colleges on National Planning Committee on Campus Green Buildings and Indigenous Land Management
- SDG Accord Working Group
- Sustainability Working Group (SWG)

### ***Awards/External certifications***

- Dawson is a finalist and joins 4 universities representing Morocco, India, UK & Australia for the International Green Gown Awards. Category is Sustainability Institution of the Year
- Signed the UN Sustainable Development Goals Accord
- Dawson signs GoZero global campaign to become carbon neutral by 2030 - achieved
- Chris Adam – Governor General’s Meritorious Service Award

### ***37 Living Campus/Open House tours given by student volunteers***

Two ImpAct research assistants joined our team and worked on integration of Sustainable Development Goals.

**OFFICE OF ACADEMIC DEVELOPMENT**  
**RESEARCH OFFICE**



Catherine LeBel  
Dean of Academic Development



Felicia Solomon  
Administration Technician, Research;  
Coordinator, Research Ethics Board



Ildikó Glaser-Hille  
Coordinator, Research



Anne Piggott  
Administration Technician