



UBC Centre for Teaching, Learning and Technology

# Publications 2018/19

Staff from the Centre for Teaching, Learning and Technology regularly contribute to the higher education teaching and learning community by sharing their expertise. The following list comprises some of our scholarly output from this past year (May 1, 2018 – April 30, 2019), including publications and presentations outside of UBC.

## Journal articles

- Chowrira, S. G., Smith, K. M., Dubois, P. J., & Roll, I. (2019). DIY productive failure: boosting performance in a large undergraduate biology course. *Npj Science of Learning*, 4(1), 1-8. <https://doi.org/10.1038/s41539-019-0040-6>
- Crowley, C., Chen, H., & Cervera, M. G. (2018). A team-based collaboration used for the development of transnational online distance education courses. *International Journal of E-Learning & Distance Education*, 33(2), 1-22.
- Harandi, N. M., Agharebparast, F., Linares, L., Dodson, S., Roll, I., Fong, M., ... Fels, S. (2018). Student Video-Usage in Introductory Engineering Courses. *Proceedings of the Canadian Engineering Education Association (CEEA)*. <https://doi.org/10.24908/pceea.v0i0.13025>
- Sharif, A., Welsh, A., Myers, J., Wilson, B., Chan, J., Cho, S., & Miller, J. (2019). Faculty liaisons: An embedded approach for enriching teaching and learning in higher education. *International Journal for Academic Development*, 24(3), 260-271. <https://doi.org/10.1080/1360144X.2019.1584898>
- Tembrevilla, G., & Milner-Bolotin, M. (2019). Engaging physics teacher-candidates in the production of science demonstration videos. *Physics Education*, 54(2), 25008. <https://doi.org/10.1088/1361-6552/aaf95d>

## Conference presentations

- Addison, C., Charbonneau, J., Dubois, P. J., Moosvi, F., Roberson, N. (2019). *Measuring Interdisciplinary Thinking in First-Year Science*. Presented at Western States Chemical Education Group Meeting, Seattle, WA.
- Addison, C., Charbonneau, J., Dubois, P.J., Roberson, N. (2019). *Measuring Interdisciplinarity*. Presented at Hawaii International Conference on Education, Honolulu, HI.
- Addison, C., Charbonneau, J., Dubois, P.J., Roberson, N. (2019). *Promoting and identifying crosscutting concepts in an interdisciplinary first-year science program*. Presented at American Chemical Society Spring 2019 National Meeting, Orlando, FL.
- Addison, C., Moosvi, F., Roberson, N., Charbonneau, J. (2018). *InlerLAS*. Presented at the Conference at the Interface of Discipline-Based Education Research in STEM and Psychological Sciences, St. Louis, MO.
- Briseño-Garzón, A., Han, A., Birol, G. (2018). *Researching Institutional Change: A Longitudinal Study on Faculty Teaching Practices*. Presented at the International Society for the Scholarship of Teaching and Learning Annual Conference, Bergen, Norway.
- Carey, K., Grain, K., Dubois, P. J., Roberson, N., Moosvi, F., Moghtader, B., Semenec, P., Varao-Sousa, T., Ho, S., Nguyen Kn, T., Roll, I., Briseño-Garzón, A. (2018). *Graduate Students as SoTL Specialists: Facilitating Faculty-Student Collaborations in a Large University*. Presented at the International Society for the Scholarship of Teaching and Learning Annual Conference, Bergen, Norway.
- Charbonneau, J., Addison, C., Dubois, P.J., Moosvi, F., Roberson, N., (2018). *Measuring Interdisciplinary Thinking in First Year Sciences*. Presented at Conference at the Interface of Discipline-Based Education Research in STEM and Psychological Science, St. Louis, MO.

- Charbonneau, J., Addison, C., Dubois, P. J., Moosvi, F., Roberson, N. (2018). *Measuring Interdisciplinary Thinking in a Unique Teaching Environment: The Science One Program at UBC*. Presented at BC Campus Festival of Learning, Vancouver, BC.
- Charbonneau, J., Addison, C., Dubois, P. J., Roberson, N. (2019). *Measuring Interdisciplinarity*. Presented at the 17th Hawaii International Conference on Education, Honolulu, HI.
- Crowley, C., & Chen, H. (2018). *Embracing teaching in a digital world – Technology changes higher education & pedagogies and learning technologies for future ready students*. Presented at the 5th Asian Pacific Forest Education Conference Mechanism (AP-FECM) Meeting “Globalization of Higher Forest Education in a Digital Era,” Beijing, China.
- Freeman, W., Lock, J., Cleveland-Innes, M., Childs, E., Gauvreau, S., Kumar, V., Lakhal, S., Nelson, D., Ould Moulage, C., Paulson, E., Sharif, A., Snow, K., Vaughan, N., Veletsianos, G., Waddington, L. A. (2018). *Developing Research Agenda for Higher Education Reform through Blended and Online Learning*. Presented at CSSHE Annual Conference, Regina, SK.
- Iqbal, I., Kim, B. & Myers, J. (2018). *Student Peer Assessment Essentials: What you need to know before implementing the approach*. Presented at the 2018 BC Campus Symposium: Scholarly Teaching & Learning in Post-Secondary Education, Vancouver, BC.
- Krbavac, M., Kim, B., & Rosado, J. (2019). *Incorporating universal design for learning principles, accessibility guidelines, and wellbeing principles into online courses and course materials: A checklist for instructors and course designers, Digital version (“Showcase item”)*. Presented at EDC-RFPES (Educational Developers Caucus – le Réseau de formateurs en pédagogie de l’enseignement supérieur) Conference & Professional Development.
- Krbavac, M., Rosado, J., & Verwoord, R. (2018). *Operationalizing care as an Educational Developer*. Presented at the BC Festival of Learning Conference, Vancouver, BC.
- Lew, J., Mooney, J., Otero, L., Roberts, R. (2019). *“Indigenization and Internationalization in Higher Education in Canada: Synergies, Distinctions, and Local Institutional Contexts.”* Presented at Learning at Intercultural Intersections Conference, Kamloops, BC.
- Lightfoot, J., Riccardi, D., Lam, M., Lyon, K., Roberson, N. (2018). *Exploring Linguistic Complexity in Multiple Choice Questions: Evening the Playing Field for EAL Students*. Presented at American Association for Applied Linguistics (AAAL) Annual Conference, Chicago, IL.
- Roll, I. Briseño-Garzón, A. (2018). *Growing a Culture of SoTL in a Research Intensive University*. Presented at the International Society for the Scholarship of Teaching and Learning Annual Conference, Bergen, Norway.
- Smith, K. M., Li, D., Birol, G., Welsh, A., Hambler, P., & Jung, D. (2018). *Piloting an academic scholars program to foster student engagement and sense of belonging in a first year science course*. Presented at the International Conference on Educational Sciences, Antalya, Turkey.
- Wang, G., Zeng, M., Crowley, C., & Chen, H. (2018). *Innovative education in sustainable forestry management*. Presented at BC Campus Festival of Learning, Vancouver, BC.
- Webb, A. & Welsh, A. (2018). *“This might be uncomfortable”: Learning to support SoTL scholars*. Presented at the International Society for the Scholarship of Teaching and Learning Conference, Bergen, Norway.
- Welsh, A. & Jandciu, E. (2018). *One size does not fit all: Sharing practices for developing and assessing degree program learning outcomes at a research-intensive university*. Presented at the International Society for the Scholarship of Teaching and Learning Conference, Bergen, Norway.

## Conference workshops

- Chan, J., & Hendricks, C. (2019). *Life hacks for the classroom: Easy, small changes with a big impact on learning*. Workshop at Congress 2019, Vancouver, BC.

Engle, W., Green, A., Hendricks, C., Jhangiani, R., Wright, L. (2019). *Designing for Open Pedagogy*. Workshop at the Cascadia Open Education Summit, Vancouver, BC.

Hendricks, C. (2018). *Open Educational Practices*. Workshop at Davidson College, North Carolina, USA.

## Invited talks

Hendricks, C. (February 2019). *Open Educational Practices: What, Why and How*. Keynote presented at Vanderbilt University, Nashville, TN.

Iqbal, I. (March 2018). *Learning and Evaluating with Peer Review of Teaching*. Presented at the Teaching Assessment Working Group Speaker Series, Burnaby, BC.

Jang, E., & Cho, S. (April 2019). *The Power of digital networking: are we better connected?* Presented at KoWinner (Korean Women's International Network) International Convention, São Paulo, Brazil.

## Blogs

Milner-Bolotin, M., & Tembrevilla, G. (2018). Scientific communication: creating explainer videos on STEM topics '18 Learning redesigned for the Connected Age. Retrieved from [www.lrng.org/university-of-british-columbia-faculty-of-education/playlist/scientific-communication-creating-explainer-videos-on-stem-topics-18](http://www.lrng.org/university-of-british-columbia-faculty-of-education/playlist/scientific-communication-creating-explainer-videos-on-stem-topics-18)

Milner-Bolotin, M., & Tembrevilla, G. (2018). Science & math education videos for all. Retrieved from [www.youtube.com/channel/UCHKp2Hd2k\\_dLjODXydn2-OA](http://www.youtube.com/channel/UCHKp2Hd2k_dLjODXydn2-OA)

Tembrevilla, G., & Milner-Bolotin, M. (2019). Virtual & Augmented Reality Resources 4 STEM Teachers. Retrieved from <https://blogs.ubc.ca/virtualreality/about-us>

## Other

Innes, J., Wang, G., Zeng, M., Crowley, C., Chen, H., El-Lakany, H., De, L., Luo, Y., Liu, Y., Weston, C., Volkova, L., & Pulhin, J. (2019). Innovative Sustainable Forest Management Education in the Asia-Pacific Region by the Asia Pacific Forestry Education Coordination Mechanism (AP-FECM) – Canada - Tertiary. Award winner for IUFRO 2019 Best Practices in Forest Education Award.

Innes, J., Wang, G., Liu, Y., Weston, C., Crowley, C., Volkova, L., Chen, H., Xi, W. (2018). Technology Innovation in Forest Education. Panel presented at the 5th Asian Pacific Forest Education Conference Mechanism (AP-FECM) Meeting "Globalization of Higher Forest Education in a Digital Era," Beijing, China.

Additional submissions for consideration should be sent to [ctlit.info@ubc.ca](mailto:ctlit.info@ubc.ca).



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