Produced by the Division of Learning and Teaching Support and Innovation (LTSI) at the University of Victoria, *The Arbutus Review* was originally created to showcase the articles, projects, and installations that result from the Jamie Cassels Undergraduate Research Award (JCURA) program. JCURA was instituted in 2009 as the Undergraduate Research Scholarship program by Jamie Cassels, then Vice-President Academic and Provost and President from 2013–2020. The award program was designed to support and create truly formative research experiences for exceptional undergraduate students. The Division of Learning and Teaching Support and Innovation administers the award nomination process on behalf of the Provost’s Office. In addition to submissions that were the result of JCURA research, *The Arbutus Review* also publishes other exceptional work from students in departments across campus.

We acknowledge and respect the lək̓ʷəŋən peoples on whose traditional territory the university stands, and the Songhees, Esquimalt, and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

**Letter from the Editor**

It is my pleasure to introduce this issue of *The Arbutus Review*, marking 13 years of publication. Including the six articles and seven artworks published in this issue, we have published 126 scholarly articles and creative works by undergraduate authors since our inception in 2010. At the time of writing, authors had cited our students’ articles 397 times, with 299 of those citations occurring in the last five years.

Despite the ongoing impacts of the COVID-19 pandemic on our lives and educational institutions, *The Arbutus Review* received an extraordinary number of student submissions this year. The six exceptional submissions published in this issue showcase both interesting and timely research from undergraduate students at the University of Victoria.

All of the articles start as third- or fourth-year course writings, honours papers, or Jamie Cassels Undergraduate Research Award (JCURA) projects and are transformed into publishable articles with the mentorship of supportive instructors, our graduate peer reviewers, and editors at *The Arbutus Review*.

I would like to extend my heartfelt gratitude to Shailoo Bedi and Nancy Ami for the opportunity to be a part of *The Arbutus Review* editorial board. I thank Madeline Walker for her expert mentorship and guidance, and Yin Lam for his assistance in reviewing, editing, and working with the authors of several of this year’s contributions. Additional words of thanks are dedicated to Natalie Boldt, Gillian Saunders, and Kaveh Tagharobi for their kind assistance and encouragement. Finally, this issue would not have been possible without the care and expertise of Bill Blair, David Boudinot, Inba Kehoe, Michael Lines, Zahra Premji, the keen editorial skills of our graduate peer reviewers, and the unwavering dedication of our student submitters.
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**Dr. Catherine Harding**  
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*Author:* Saraf Nawar Rodyna

All submissions were reviewed blind by at least two readers. These readers are graduate students, researchers, instructors, and emeriti from the University of Victoria. We thank them for their valuable contributions to *The Arbutus Review*.

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The opinions expressed in *The Arbutus Review* are those of the authors and do not necessarily represent those of the journal or the University of Victoria. *The Arbutus Review* is a peer-reviewed journal. While every effort is made by the Editorial Board to ensure that *The Arbutus Review* contains no inaccurate or misleading citations, opinions, or statements, the information and opinions contained within are the sole responsibility of the authors. Accordingly, the Publisher, the Editorial Board, the Advisory Board, and their respective employees and volunteers accept no responsibility or liability for the consequences of any inaccurate or misleading information, opinion, or statement.

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