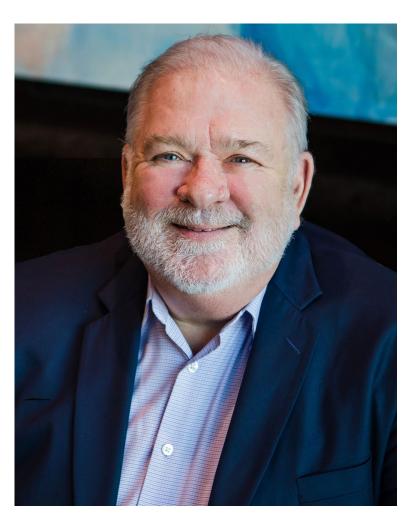




### MESSAGE FROM DEAN MIKE HENRY



This 2021–2022 Research Report encapsulates some of the research our faculty is conducting on the most pressing issues of our time. Climate change. Sustainable economic development. Unpredictable financial markets. Public health and the COVID-19 pandemic.

This academic year was filled with many shifting challenges as we navigated return-to-campus health guidelines. Yet you will see many examples of our faculty's ability to innovate. They have continued to collaborate with their colleagues, here at TRU and around the world, engage in conferences, write articles and books and mentor tomorrow's researchers and business leaders.

Within this report, you will see some of the best examples of how our research impacts society. You'll read how our faculty engage with issues local to the BC Interior by examining the value of our green infrastructure. Our gaze also goes farther afield to Iran's energy security and vaccine inequality between rich and poor nations: global issues that ultimately impact us all. We also look beyond policy and economics to the personal, and how everyone from aspiring entrepreneurs to CEOs can better understand how the biases and habits of their customers—and themselves—affect their decision-making.

Finally, I am very proud to see our students and alumni included in this report. They worked alongside our faculty to bring forward new perspectives and ideas while learning how to structure an impactful research study. This research will help people and governments make evidence-based decisions today, while fostering skills and knowledge that our alumni will carry forward to their future academic and professional endeavours.

Dr. Mike Henry Dean, Bob Gaglardi School of Business and Economics

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Voluntary carbon information disclosures, corporate-level environmental sustainability efforts, and market value	Experiences and perspectives of ethnocultural breast cancer survivors in the interior region of British Columbia:  A descriptive cross-sectional approach
Publishing quantitative careers research: challenges and recommendations	The value of leadership practices when there is no one to lead: A nascent entrepreneurship context
The influence of the number of brand community memberships on customer centric measures	Assessing the Value of a Park in a Rural-Urban Fringe Zone: A Case Study of Kenna Cartwright Nature Park in the Interior of British Columbia
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2021–2022 RESEARCH REPORT

### RESEARCH PUBLICATIONS

If you would like to read any of these publications in full, we invite you to contact us at gaglardi@tru.ca.



### **Exploring First Nation Community Well**being in Canada: The Impact of Geographic and Financial Factors

Shawn Blankinship<sup>1</sup> and Laura Lamb<sup>2</sup> 👵

First Nation community well-being is examined with a lens on the role of First Nation community well-being is examined with a lens on the nole of seographic location and financial indicators a sportial determinants of well-being Regression analysis makes use of data from the 2016 Caradian well-being lindices, 44 of 46 First Nation communities. The results suggest that geographic location is the most critical factor explaining well-being wides being the control of t

Keywords: well-being, economic development, regional economics, indigenous, First Nation.

1. Introduction
First Xation communities in Canada, as in many regions across the globe, often experience lower levels of well-being relative to non-first Xation communities. Within Canada, there is substantial geographic location in plays a role in explaining the variance in well-being among irrst Xation communities. (Dylan et al., 2013; Elial, 2017). The first objective of this research paper is to examine the relationship between First Xinion communities. The relationship between First Xinion communities. The geographical incasium in Canada. Geographic of the First Xation communities. The geographical measure of latitude is also examined to test the robustness of the empirical resistals. The second objective is to evaluate the relationship between facilities of the First Xation communities. The geographical measure of latitude is also examined to test the robustness of the empirical resistals. The second objective is to evaluate the relationship between

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©© 2022 The Economic Society of Australia. doi: 10.1111/1759-3441.12358

TRU AUTHORS: DR. LAURA LAMB, PROFESSOR OF ECONOMICS & SHAWN BLANKINSHIP

### Exploring First Nation Community Well-being in Canada: The Impact of Geographic and Financial Factors

First Nation communities in Canada experience a wide range of well-being, and it's generally accepted that those that are more remote score lower on well-being indexes than those that are closer to large urban areas. But is it true? MBA graduate Shawn Blankinship and his thesis supervisor, Dr. Laura Lamb, explored the topic using original data gathered from the financial statements of 446 Indigenous communities across the country and applying econometric analysis to evaluate the relationships between variables. Their results confirm that more remote communities do tend to have lower levels of income, formal education and housing quality. The data also revealed less intuitive findings: Indigenous language knowledge, which is an important indicator of cultural attachment, tends to be higher in more remote communities, and suggests there may be current policies in certain regions and provinces that would also be effective in other areas of Canada. The financial indicators evaluating transfer revenues from First Nations entities and own-source business revenues were associated with higher community well-being—demonstrating that greater First Nation control over revenue is linked with positive community outcomes.

Blankinship, S. & Lamb, L. "Exploring First Nation Community Well-being in Canada: The Impact of Geographic and Financial Factors." Economic Papers: A journal of applied economics and policy. 2022.



Green Finance, 4(2): xx-xx. DOI: 10.3934/GF.2022009 Received: 23 December 2021 Revised: 13 March 2022 Accepted: 06 April 2022 Published: xx April 2022

http://www.aimspress.com/journal/GF

Research article

Voluntary carbon Information disclosures, corporate-level environmental sustainability efforts, and market value

Jaspreet K. Sra<sup>1,\*</sup>, Annie L. Booth<sup>2</sup> and Raymond A. K. Cox<sup>3</sup>

- School of Business, University of Northern British Columbia, Prince George, BC, Canada
- <sup>2</sup> School of Planning and Sustainability, University of Northern British Columbia Prince George, BC, Canada
- <sup>3</sup> School of Business and Economics, Thompson Rivers University, Kamloops, BC, Canada
- \* Correspondence: Email: jsra@unbc.ca; Tel: (+1)2509608829.

Abstract: Based on global 500 companies, his study examines whether the market incorporates the corporations' voluntary carbon emissions disclosures as part of their environmental sustainability effects thus increasing their market value. Proxies used to measure the corporations' ecological extension of the companies of voluntary carbon emissions amounts, as assistanibility effects include the choice of voluntary carbon disclosures, earbon emissions amounts of disclosure from the companies that chose or disclosure disclosures or disclosures or disclosures. The companies that chose their efforts towards environmental sustainability by increasing their market value. This study also companies had higher market value disclosing firms. All the companies had higher market value that off disclosing firms. However, this relationship was statistically insignificant. This study use the more extensive date set, extended period, and more robust incorporate environmental-related disclosures. Therefore, this most recent study can provide new insights to researchers, investors, and policymakers in the present context of environmental sustainability and pusicious statishability and pusicious statishabi

Keywords: voluntary carbon disclosures; environmental sustainability; market value; difference

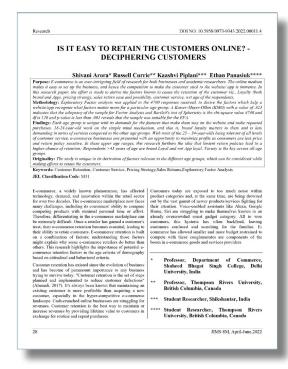
JEL Codes: G30, M50, Q51, Q56

TRU AUTHORS:
DR. RAYMOND COX,
PROFESSOR OF FINANCE

### Voluntary carbon information disclosures, corporate-level environmental sustainability efforts, and market value

Can you be too honest? If you're running a company and wondering whether to disclose its carbon emissions, you may wonder if it will help or hurt your firm's value. In a new paper, *Voluntary carbon information disclosures, corporate-level environmental sustainability efforts, and market value*, Dr. Raymond Cox and his co-authors look at whether companies that chose to disclose carbon emissions data receive market benefits that lead to increased value over time. They look at 500 companies worldwide that provided their emissions information to the Carbon Disclosure Project (CDP) between 2010–2018. By expanding the data set and using a more robust econometric approach, the study provides new insights to researchers, investors and policymakers on environmental and business sustainability.

Booth, A. & Cox, R. "Voluntary carbon information disclosures, corporate-level environmental sustainability efforts, and market value." Green Finance. 2022.

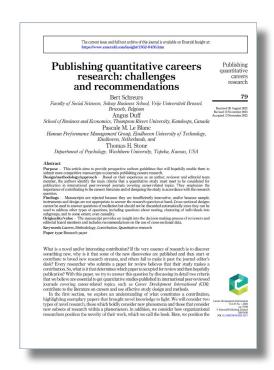


### Is it easy to retain the customers online? Deciphering Customers

Age matters—particularly for online retailers who are looking to build customer loyalty. In a new paper on age and customer retention, Professor Dr. Russell Currie, student Ethan Panasiuk and co-authors analyzed 4,700 responses from e-commerce customers in India to determine which factors matter to specific age groups. Among the results? While 18- to 24-year-olds are more likely to make repeat purchases on an app, those 45 and older want lenient return policies. Ultimately, retailers striving to compete in the hyper-competitive online space need retention programs that are age-appropriate for their target customer.

Arora, S., Currie, R., Piplani, K. & Panasiuk, E. "Is it easy to retain the customers online? Deciphering Customers." The Journal of Indian Management & Strategy. 2022.

TRU AUTHORS:
DR. RUSSELL CURRIE,
PROFESSOR OF MARKETING
& ETHAN PANASIUK

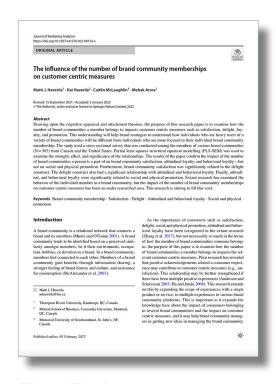


TRU AUTHOR:
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HUMAN RESOURCE MANAGEMENT

## Publishing quantitative careers research: challenges and recommendations

Each year, thousands of research papers are accepted for publication in accredited journals. Still more never make it to reviewers' desks. As publication is key to disseminating research to other academics and researchers, authors can be left confused when their paper, which they believe contributes to their field, isn't accepted. In a new paper, Publishing quantitative careers research: challenges and recommendations, Dr. Angus Duff and his co-authors identify the main criteria that a quantitative study must meet to be considered for publication in international peer-reviewed journals covering career-related topics. Among their recommendations? While securing publication starts with study design, storytelling is essential: an author's craft in identifying a research gap and ability to demonstrate how their paper contributes to that gap is a crucial part of journal submission.

Schreurs, B., Duff, A.J., Le Blanc, P.M. & Stone, T.H. "Publishing quantitative careers research: challenges and recommendations." Career Development International. 2022.



TRU AUTHOR: DR. MATTI HAVERILA, PROFESSOR OF MARKETING

## The influence of the number of brand community memberships on customer centric measures

If you like a product or service, you may tell your friends, post on your social accounts or leave a glowing online review. If you do, you may qualify as a brand community member—the sort of loyal customer who makes repeat purchases and promotes the brand to others. A new paper by Dr. Matti Haverila and co-authors explores an under-researched area: how the number of brand community memberships impacts customer centric measures. They surveyed 500 people from Canada and the US who belonged to one or more brand communities and found that customer delight—a combination of joy and surprise—has a direct effect on customer satisfaction, along with other findings that brand community managers can use in their marketing strategies.

Haverila, M., Haverila, K., McLaughlin, C. & Arora, M. "The influence of the number of brand community memberships on customer centric measures." Journal of Marketing Analytics. 2022.

### Development of a brand community engagement model: a service-dominant logic perspective

Kai Harverila
Department of Marketing, Concordia University, Montreal, Canada
Matri Harverila
Department of Marketing, Thompson Niews University, Kamloops, Canada, and
Carlini McLaughlin
sartment of Marketing, Memorial University of Newfoundland, Saint John's, Canada

Abstract
Purpose – The purpose of this paper is to develop a model that examines motives as antecedents and consequences of brand community engagement (BCE) based on the recent service-dominant (S-D) logic framework, which considers the many actors involved in creating and

organization (RCD) based on the record service-deminised (SCD) legs; between, which consists the many action involved in creating and the probability of the record of the

Keywords PLS-SEM, Customer satisfaction, Service-dominant logic, Motives, Relationship quality, Brand community engagement, Brand communi

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Science hading inducte that VIV-s of the consistence as follows on social media. This is particularly important for sounger consumes because of the longer times they spen younger consumes because of the longer times they spen share social media convent (Cheung or al., 2011a). The importance of social media can be verified by social medi potentials rare seconding 10th in many countries (Estatia worldwise) being estimated to reach 4.4 billion by 20 (Smitza, 2011b). Therefore, it is not supriming that soci communicating brand knowledge and inciting three communicating brand knowledge and inciting three communicating brand knowledge and inciting three

engagement (Gómez et al., 2019; Hollebeck et al., 2014). Brand communities (BCs) are based on a structured set c social relationships among admirers of a brand (Muniz an O'Guinn, 2001), and they can create numerous benefits for firm and consumers. For marketers, these include getting custome feedback and insights, learning, brand promotion and advocace

The current issue and full text archive of this journal is available on Em lasight at: https://www.curcrald.com/insight/0736-3761.htm



and centurious rectained (soft-declared red). 2002, Followers, in the Bessel and the Section of the Section of the Section of the Section of the and creates value for them? As the environment is constained, cooling, it is clear that firms most go beyond the traditions marketing processes (Hollebeck, 2011) and focus on emerging constructs like engagement. An understanding of the engagement process on the accomplished with a service demantant (S-I) Decis can be accomplished with a service

customer relationship to examine a more comprehensive range of important actors, all of whom are integrating resources, interacting and exchanging services to cu-crate value (Vargo and Lusch, 2016;). This can be accomplished by viseing RGC through the lens of \$5D logic. Provious research has examined BGC from the \$5D logic perspective (Chenge of al., 2020;). Periabus and Mikh., 2011; Pougsakormungslip of al., 2008; but since the recent modification of \$5D logic in 2016 (Vargo and Lusch, 3016), the research in this context is source. One of the logic respective (Core craims of value by the logic respective (Core craims of value by the logic respective).

Funding received from Social Sciences and Human Research Council of Canada #430-2018-00816.

Received 22 January 2021 Revised 23 July 2021 3 October 2021 26 November 2021 Accorded 29 December 2021

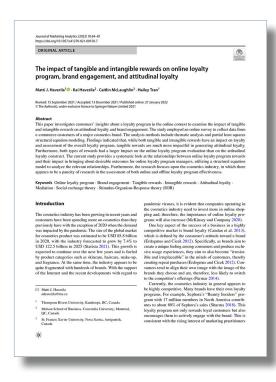
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TRU AUTHOR: DR. MATTI HAVERILA, PROFESSOR OF MARKETING

### Development of a brand community engagement model: a service-dominant logic perspective

Dr. Matti Haverila furthers his research into brand communities by applying the most recent service-dominant logic framework to examine why customers become brand community members. In brand communities, customers engage in a relationship with a brand that evolves beyond transactions. Their research offers several implications for brand managers: maintaining engagement means more than offering a gathering place for members. Instead, encouraging members to create entertaining and engaging content along with opportunities for status enhancement (such as reward badges, member-first event invitations and access to exclusive online content) enhances members' sense of belonging and furthers the relationship between firm and customer.

Haverila, K., Haverila, M. & McLaughlin, C. "Development of a brand community engagement model: a service-dominant logic perspective." Journal of Consumer Marketing. 2021.



TRU AUTHOR: DR. MATTI HAVERILA, PROFESSOR OF MARKETING & HAILEY TRAN.

### The impact of tangible and intangible rewards on online loyalty program, brand engagement, and attitudinal loyalty

In highly competitive industries, loyalty programs can be the difference between a company's success or failure. To explore what makes loyalty programs effective, Dr. Matti Haverila and MBA graduate Hailey Tran surveyed customers of a major cosmetics brand, asking a series of questions to determine the impacts of tangible vs. intangible rewards. Their findings suggest that while customers view tangible (monetary) rewards as more important, intangible rewards provide a more unique experience that helps form emotional attachments and are harder for competitors to copy—suggesting a combination of both rewards will foster long-term customer-brand relationships.

Haverila, M., Haverila, K., McLaughlin, C. & Tran, H. "The impact of tangible and intangible rewards on online loyalty program, brand engagement, and attitudinal loyalty." Journal of Marketing Analytics. 2022.



TRU AUTHOR:
DR. MATTI HAVERILA,
PROFESSOR OF MARKETING

# The relationships between the satisfaction, value for money and repurchase intent constructs in the context of wine tasting room

Visiting a wine tasting room should never be a sour experience, particularly if wineries want to entice customers to repurchase. Over a million people visit British Columbia's 370 wineries each year, generating \$600 million in tourism-related economic impact. In 2017, a group of TRU graduate students surveyed 402 customers from 14 different BC wineries on their level of satisfaction, repurchase intent and value for money. Dr. Matti Haverila and co-author analyzed the data using the partial least squares structural equation modelling (PLS-SEM). They found a significant relationship between value for money and repurchase intent and conclude that many wineries can increase sales by implementing experience marketing.

M.J. Haverila & J.C. Twyford. "The relationships between the satisfaction, value for money and repurchase intent constructs in the context of wine tasting room." Journal of Wine Research. 2022.

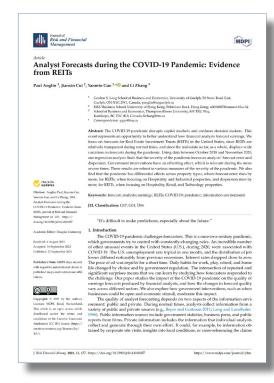


### How Do the CEO Political Leanings Affect BEIT Business Decisions?

Nearly 40% of global carbon dioxide emissions come from the real estate sector—which means both governments and investors are motivated to construct and retrofit greener buildings. In a 2021 paper, *How Do the CEO Political Leanings Affect REIT Business Decisions*, Dr. Yanmin Gao explored how the political preferences of the CEOs of real estate investment trusts (REITs) in the United States affect their business decisions. They found that CEOs that financially support the Democratic Party tend to be more comfortable with risk and more likely to invest in projects that benefit the environment—and CEOs that donate to either political party are more likely to make investments in environmental, social and governance activities than those who don't donate at all.

Deng, X., Anglin, P.M., Gao, Y. & Sun, H. "How Do the CEO Political Leanings Affect REIT Business Decisions?" Journal of Real Estate Research. 2021.

TRU AUTHOR:
DR. YANMIN GAO,
ASSOCIATE PROFESSOR OF ACCOUNTING



### Analyst Forecasts during the COVID-19 Pandemic: Evidence from REITs

In the early days of the COVID-19 pandemic, financial forecasters predicted that the unprecedented event would hurt the real estate market. They were both right and wrong: while some Real Estate Investment Trusts (REITs) did see steep declines (hospitality, retail) others fared much better (industrial, technology). Dr. Yanmin (Liz) Gao and Dr. Li Zhang saw an opportunity to examine how uncertainty affects analysts' forecasts. Looking at REITs in the United States between October 2018 and November 2020, they found that the severity of the pandemic, measured in the number of COVID-19 cases and deaths, increased analysts' forecast errors—suggesting that in future challenging times, investors would be wise to diversify their portfolio to accommodate distinctions between perceived winners and losers.

Anglin, P., Cui, J., Gao, Y. & Zhang, L. "Analyst Forecasts during the COVID-19 Pandemic: Evidence from REITs." Journal of Risk and Financial Management. 2021.

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Vol. 18 No. 3 (71) Winter 2022 Received Date: 2021/5/17 Accept Date: 2021/12/29

Reckoning the Impacts of Cognitive Biases on Decisions Made About Development of Iran's Oil and Gas Resources

Azam Asayesh Zarchi\* - Mehran Kamrava Ph.D\*\* - Salman Kimiagari Ph.D\* Abstract

In today's world, political economics of petroleum has been an increasingly important aspect of diplomacy and political economics. The huge weight of economics and petroleum politics make it imperative part of parcel of any study to review the dynamic due as well as the influencing factors on how authorities derive to certain decisions and what are the basis of their overall considerations. This paper is examination of the complex individual influences central to the way in which decision-making is pursued, most notably from the point of view of the cognitive, normative, and psychological perspectives. The aim is by utilizing qualitative and quantitative data analysis to outline the likelihood influence of cognitive biases in decision processes as well as examine the relationships of these biases on outcomes of decision made about development of Caspian Sea oil & gas joint deposits. Subsequently, depict how to avoid the adverse impacts and risks (economic, political and social risks) in future. The ultimate aims are to derive to a series of lessons learned, which becomes an input to improve the decision making process in future development of Caspian Sea joint field of oil and gas deposits and its resolutions. It also addresses many hidden issues behind many decisions made by Iranian decision makers regarding the development of joint fields of Caspian

### Reckoning the Impacts of Cognitive Biases on Decisions Made About Development of Iran's Oil and Gas Resources

The geopolitics of oil and gas are complex and pervasive, and no more so than in the Caspian Sea, where multiple countries can lay claim to the area's oil and gas deposits. In a recent paper, Dr. Salman Kimiagari and his co-authors offer an analysis of the cognitive biases impacting the decisions Iranian authorities make about the country's oil and gas joint developments. Using quantitative and qualitative data from interviews with 30 authorities, the analysis explores how Iranian leaders can improve decision-making in future joint developments of Caspian Sea energy reserves while avoiding certain economic, political and social risks.

Kamrava, M., Kimiagari, S. & Zarchi, A. "Reckoning the Impacts of Cognitive Biases on Decisions Made About Development of Iran's Oil and Gas Resources." International Studies Journal, 2021.

TRU AUTHOR: DR. SALMAN KIMIAGARI, ASSOCIATE PROFESSOR OF MANAGEMENT, INTERNATIONAL BUSINESS, INFORMATION AND SUPPLY CHAIN

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"Professor at Georgetown University Qutar. / Email: melean.humayan@georgetown.edu

"Assistant Pof at Department of Marketing and International Business, Thompson Rivers University

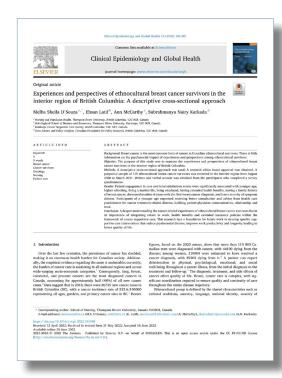


### Extending Intention to Use Electronic Services Based on the Human-Technology Interaction Approach and Social Cognition Theory: Emerging Market Case

Internet or e-banking offers a host of benefits to both banks and customers: it is more efficient and cost-effective than traditional face-to-face bank services. Yet, some studies find that only 28% of Internet users worldwide use e-banking. A new study by Dr. Salman Kimiagari looked at survey data gathered from over 370 customers at five Iranian banks and found people were open to adopting e-banking, but structural features weren't enough to persuade them to adopt the technology. Kimiagari and his co-author conclude that banks in transition economies with similar socioeconomic conditions can use the insights from this study to make more informed choices about investing in Internet banking to encourage more people to use its services.

Kimiagari, S. & Baei, F. "Extending Intention to Use Electronic Services Based on the Human-Technology Interaction Approach and Social Cognition Theory: Emerging Market Case." IEEE Transactions on Engineering Management. 2022.

TRU AUTHOR:
DR. SALMAN KIMIAGARI,
ASSOCIATE PROFESSOR OF MANAGEMENT,
INTERNATIONAL BUSINESS, INFORMATION
AND SUPPLY CHAIN



TRU AUTHOR: DR. EHSAN LATIF, ASSOCIATE DEAN

# Experiences and perspectives of ethnocultural breast cancer survivors in the interior region of British Columbia: A descriptive cross-sectional approach

For many patients, a cancer diagnosis brings with it a decreased quality of life. For women from ethnocultural groups—those with shared cultural traditions, ancestry or country of origin—that effect may be heightened by reduced access to care and information, less familial support and greater difficulty communicating with health care professionals due to cultural factors or language barriers. Dr. Ehsan Latif and co-authors conducted a survey of 115 ethnocultural breast cancer survivors in the interior region of BC and found that only 50% of participants who reported cancer treatment distress consulted their physicians. These and other findings lay a foundation for future work on care interventions that will lead to better quality of life for survivors, while raising awareness of the importance of streamlining cancer care navigation in the health care system.

D'Souza, M. S., Latif, E., McCarthy, A., & Karkada, S. N. "Experiences and perspectives of ethnocultural breast cancer survivors in the interior region of British Columbia: A descriptive cross-sectional approach." Clinical Epidemiology and Global Health. 2022.

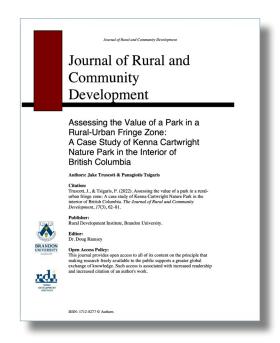


TRU AUTHOR:
DR. BRUCE MARTIN,
PROFESSOR OF HUMAN ENTERPRISE
AND INNOVATION

### The value of leadership practices when there is no one to lead: A nascent entrepreneurship context

To launch a successful venture, people need networks of relationships to acquire financial and human resources. So what should entrepreneurs without these networks do? Dr. Bruce Martin and his co-author studied six immigrants who had few connections in their new country as they were trained in entrepreneurship and then tried to create their own ventures. Through 18 months of detailed observations, the researchers found that those who were successful at creating new ventures were aided by their ability to create valuable networks of potential partners and supporters using a unique and understudied type of leadership skill, relational leadership. By quickly establishing supportive and helpful relationships, these entrepreneurs were able to persist in new venture creation. The author's discussion of when and how to use relational leadership offers valuable lessons for other aspiring business owners who face adversity during their entrepreneurial journey.

Walsh, L. & Martin, B. "The value of leadership practices when there is no one to lead: A nascent entrepreneurship context." Journal of Small Business Management. 2021.



TRU AUTHOR:
DR. PETER TSIGARIS,
PROFESSOR OF ECONOMICS
& JAKE TRUSCOTT

### Assessing the Value of a Park in a Rural-Urban Fringe Zone: A Case Study of Kenna Cartwright Nature Park in the Interior of British Columbia

Create a park, or build a housing development? As many cities face housing shortages and urban sprawl, city planners and governments are facing mounting pressure on the urban vs. nature tradeoff. That trend will only increase; the world's urban population is projected to increase by two to three billion by 2050. In his recent paper, Dr. Peter Tsigaris and graduate student Jake Truscott look at the value of Kenna Cartwright Nature Park, which was established in Kamloops in 1996. At 749 hectares, it is BC's largest municipal park and the ninth largest in Canada. The paper finds Kenna's ecosystem services represent 1% of Kamloops' annual GDP, and 20% of the value of all single-detached homes in the City-showing that residents and visitors place significant value on green infrastructure.

Truscott, J. & Tsigaris, P. "Assessing the Value of a Park in a Rural-Urban Fringe Zone: A Case Study of Kenna Cartwright Nature Park in the Interior of British Columbia." Journal of Rural and Community Development. 2022.



Cite this paper as: Chirico F, Teixeira da Silva JA, Sharun K, Tsigaris P. Global COVID-19 vaccine inequality: An overview of critical factor and possible solutions. J Health Soc Sci. 2022;7(3):267-282. Doi: 10.1920/2022/CGIB.3

TRU AUTHOR: DR. PETER TSIGARIS, PROFESSOR OF ECONOMICS

### Global COVID-19 vaccine inequality: An overview of critical factors and possible solutions

Worldwide, the Coronavirus disease has infected 630 million people and caused 6.57 million deaths as of October 16, 2022. Vaccines are currently the most effective weapon against transmission—but initiating a global vaccination campaign is complex, and complicated by production and distribution inequalities and vaccine hesitancy; a huge disparity exists in vaccination rates between rich and poor nations. In a recent paper, Dr. Peter Tsigaris and his co-authors look at the factors hampering the efforts to contain the COVID-19 pandemic globally and provide possible policy solutions, including an equal distribution of vaccines, the supply of proper epidemiological tools and data to decision-makers, and international co-operation to provide effective vaccine production and distribution.

Chirico, F., Teixeira da Silva, JA., Sharun, K. & Tsigaris, P. "Global COVID-19 vaccine inequality: An overview of critical factor and possible solutions." Journal of Health and Social Sciences. 2022

Indian J Med Res 155, January 2022, pp 91-104 DOI: 10.4103/ijmr.IJMR\_474\_21



Safety & effectiveness of COVID-19 vaccines: A narrative review

Francesco Chirico<sup>1</sup>, Jaime A. Teixeira da Silva<sup>2</sup>, Panagiotis Tsigaris<sup>2</sup> & Khan Sharun<sup>4</sup>

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The World Health Organization (WHO) list of Emergency Use Authorization (EUA)-qualified by injecting mBNA that excedes the SARS-GoV-2 (COUTh-1) vectories (on 0.02) December, 2021) substituted to the Couthern of Couther

TRU AUTHOR: DR. PETER TSIGARIS. PROFESSOR OF ECONOMICS

### Safety & effectiveness of COVID-19 vaccines: A narrative review

The COVID-19 pandemic continues to be a significant and evolving threat to public health, requiring further research and information to assist governments and policymakers in making evidence-based decisions. In a recent literature examination on the effectiveness of COVID-19 vaccines, Dr. Peter Tsigaris and his co-authors find the eight vaccines currently authorized by the World Health Organization (WHO) are highly effective in preventing severe disease and death. They also identify issues concerning adverse effects and the need for variant-specific vaccines to protect against new viral strains.

Chirico, F., Teixeira da Silva, J.A., Tsigaris, P. & Sharun, K. "Safety & effectiveness of COVID-19 vaccines: A narrative review." Indian Journal of Medical Research, 2022.

### SUPERVISED THESIS DEFENCES

**Dr. Raymond Cox** supervised **Natalia Popa** on Factors Affecting the Price-to-Earnings Ratio.

Dr. Laura Lamb supervised Shawn Blankinship on Relationship between First Nation Government Investing Policy and Community Well-being.

Dr. Mohammad Mahbobi supervised Marriappan Vasudevan on Credit Risk Scoring and Evaluation using Artificial Neural Network and Deep Neural Network.



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## HONOURS & AWARDS

Salvador Barragan, Bruce Martin, Tolulope Oluwafemi and Scott Rankin won Best Paper Award in the Entrepreneurship & Family Business Division at the 2022 Administrative Science Association of Canada (ASAC) Conference for their paper How Social Enterprise can Flourish under Extreme Adversity: Why Ethics of Care is Everything and Not Enough.

Matti Haverila won Best Paper Award in the Marketing Division at the 2022 Administrative Science Association of Canada (ASAC) Conference for his paper Importance-Performance Analysis in the Context of Higher Education.



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