

Fall 2022

# Toast to USask's Doctoral Graduates

*The beauty and diversity of Saskatchewan is profound. Under our province's endless sky, and situated on Treaty 6 territory by its swiftly flowing river (Kisiskatchewanipi) in Saskatoon, we, at the College of Graduate & Postdoctoral Studies are proud to call this place home. We are grateful to share this space with you, the Homeland of the Métis and pay our respect to the First Nations and Métis ancestors of this place and reaffirm our relationship with one another.*

<b>11:30am</b>	Doors open
<b>12pm</b>	Greetings & light lunch
<b>12:30pm</b>	Champagne toasts
<b>1pm</b>	Farewell



## **Debby Burshtyn** Dean of College of Graduate & Postdoctoral Studies

Debby is an advocate for adapting graduate education and mentorship to fit the changing funding and employment landscape. She continues to lead initiatives designed to effect long-term positive change on graduate students' learning experiences. Through her work with the Canadian Association for Graduate Studies (CAGS) Task Force on Excellence in Graduate Programs, Debby is committed to a vision of excellence in graduate programming across Canada and here, at USask.



## **Grit McCreath** University Chancellor

From spending Sundays on campus with her parents as a youngster, to being a student and alumna, to being a member of the University Senate and the Board of Governors, McCreath has held many roles at USask, giving her time and energy for the better part of 20 years. For the last decade, Chancellor McCreath has served the University of Saskatchewan as a member of the Senate and Board of Governors.

*"The pursuit of a PhD is an enduring and daring adventure."*

**Ran Sun** (Agricultural Economics) *Adoption of an Innovative Water Management System in Eastern Canada*

**Ruth Aschim** (Animal Science) *An Interdisciplinary Approach to Mapping and Modelling Resource Selection and the Rapid Spread of Invasive Wild Pig (*Sus scrofa*) at the Northern Extent of their Introduced Range*

**Breanna Kellin** (Animal Science) *Improving Grazing Capacity Through Introduction of Bloat Free Legumes in Existing Pasture Stands*

**Bruna Maria Remonato Franco** (Animal Science) *The Influence of Wavelength on Production, Behaviour, Health, and Welfare of Broiler Chickens*

**Pallavi Bohidar** (Biomedical Engineering) *Simulation, Design, and Implementation of Approaches to RF-Encoded (TRASE) MRI*

**AliAkbar Jamali Beyrami** (Biomedical Engineering) *Identifying Drug-Target and Drug-Disease Associations Using Computational Intelligence*

**Sreenivasa Aditya Mandapati** (Biochemistry, Microbiology & Immunology) *The Role and Mechanism of Action of BRK in Tamoxifen-resistant Breast Cancer*

**Toomas Parratt** (Civil Engineering) *Wintertime Infiltration and the Thermal Dynamics of Black Spruce Peatlands within the Boreal Plains*

**Lina Wu** (Civil Engineering) *Water-Energy-Food Nexus Assessment Framework for Integrated Resource Management*

**Iurii Anisimov** (Chemistry) *Polyaniline/Biopolymer Composites for Moisture Detection and Their Electromechanical Properties*

**Bahareh Vafakish** (Chemistry) *Investigation of Chitosan-based Sorbents for Water Treatment, Pollutant Detection, and Adsorption Mechanism*

**Amara Zuhaib** (Chemistry) *Characterization of Organic Glasses by NEXAFS Spectroscopy*

**Martin Dechant** (Computer Science) *Socially Anxious Play: Design, Development, and Evaluation of Game-Based Digital Behavioral for The Assessment of Social Anxiety*

**Matthew Miller** (Computer Science) *Supporting Relationships with Video Chat*

**Weicheng Qian** (Computer Science) *Transmission Modeling with Smartphone-Based Sensing*

**Md Sami Uddin** (Computer Science) *Use of Landmarks to Improve Spatial Learning and Revisitation in Computer Interfaces*

**Laila Albughayl** (Education Administration) *Women Leaders' Experiences in Navigating the Labyrinth of Leadership in Saudi Post-Secondary Institutions*

**Keonie Green** (Education) *Environmental Awareness in Early Years Education: A Systematic Content Analysis on Research from Different Countries*

**Mohammadreza Asadikouhanjani** (Electrical Engineering) *Design of Efficient DNN Accelerator Architectures*

**Rinku Basak** (Electrical Engineering) *Development of Multifunctional Electrical Impedance Spectroscopy System for Characterization in Plant Phenotyping*

**Nestor Sandoval** (Electrical Engineering) *Stochastic Operation of Distribution Networks with Voltage Dependent Load*

**Julio Torres Tello** (Electrical Engineering) *Optimization of AI models as the Main Component in Prospective Edge Intelligence Applications*

**Seyed Shahim Vedaei** (Electrical Engineering) *A Hybrid Localization Method for Wireless Capsule Endoscopy (WCE)*

**Botao Zhu** (Electrical Engineering) *Energy-Efficient and Fresh Data Collection in IoT Networks by Machine Learning*

**Danny Beveridge** (Environment and Sustainability) *Searching for Shared Meaning: Defining and Measuring Sustainability as Institutional Work and Organizational Change*

**Jania Chilima** (Environment and Sustainability) *Exploring Involvement of Community Water Users in Collaborative Water Resource Governance and Management Regime for Lake Diefenbaker, Saskatchewan, Canada*

**Seyedmohammad Ghoreishi** (Environment and Sustainability) *Socio-hydrology from Local to Large Scales: An Agent-based Modeling Approach*

**Jada Koushik** (Environment and Sustainability) *Sense of Place Dimensions: Examining how Students, Educators and Administrators Perceive Place as Influencing K-12 Sustainability Education in Rural and Urban School Districts*

**Maria Mora Garces** (Environment and Sustainability) *Collaborative Water Governance: Fostering Participation, Relationships, and Reconciliation in Mistawasis Nêhiyawak*

**Sumudu Warnakulasuriya** (Food Science) *A Study of Antimicrobial and Surfactant Properties of N-lauroyl Amino Acids and Development of Similar Compounds from Canola Meal Proteins*

**Holly Annand** (Geography) *The Influence of Climate And Wetland Management On Prairie Hydrology - Insights From Smith Creek, SK*

**Xiaolei Yu** (Geography) *Assessing Vegetation Response to Drought In Northern Mixed Grasslands: Perspective From Remote Sensing*

**Alessandro Tarsia** (History) *Tobacco in Stó:lō Historical Consciousness. Change and Continuity Through Intersectional Stigmas and Honours*

**Kelechi Eguzo** (Health Sciences) *Community-Engaged Approach to Cancer Control Policy in Abia State-Nigeria: A Mixed-Methods Action Research Project*

**Cole Libner** (Health Sciences) *Novel Mechanisms of Neurodegeneration in Multiple Sclerosis Models*

**Holly Mansell** (Health Sciences) *Selective Studies on The Challenges of Cannabis Use In Children, Youth, and Young Adults*

**Deena Honan** (Nursing) *How do Registered Nurses Understand Followership?*

**Lee Sanders** (Interdisciplinary Studies) *Exploring Loss of Cree Culture as a Criminogenic Need in the Context of Colonization and Indigenous Overrepresentation, with Emphasis on the Structural Determinants of Risk and Culture-Specific Protective Factors that buffer Against Risk*

**Jesus Corona Gomez** (Mechanical Engineering) *Wear and Corrosion Resistance Improvement of CoCrMo alloy by Tantalum Based Coatings*

**Hadi Hosseinzade Halqesari** (Mechanical Engineering) *Large Eddy Simulation of Wall-bounded Turbulent Flows at High Reynolds Numbers*

**Michelle Pavloff** (Nursing) *Rural Home Care Registered Nurses' Experiences with Continuing Nursing Education*

**Asmita Poudel** (Pharmacy) *Development of Liposomal Formulation Containing Phytosterols and Tocopherols with the Aim of Reducing Low Density Lipoprotein Cholesterol (LDL-C)*

**Muhammad Ruhul Amin** (Physics and Engineering Physics) *Determination of He Every Level of Eu 2+ for Next Generation LED Phosphors*

**Jayangani Ranasinghe** (Physics and Engineering Physics) *Comprehensive Investigation of Selected Uranium Compounds with Application for Clean Energy*

**Stefanie De Heij** (Plant Science) *Carabids & Weed Seed Biocontrol*

**Anteneh Feyissa** (Plant Science) *Inheritance of Resistance to Chocolate Spot (*Botrytis fabae*) in Faba Bean (*Vicia faba*)*

**Shaoming Huang** (Plant Science) *Hormonal and Genetic Basis of Heat Response in Field Pea (*Pisum sativum* L.)*

**Hu Wang** (Plant Science) *Genetic Variation and Genome-environment Association of Alfalfa (*Medicago sativa* L.) Populations Under Long-term Grazing*

**Kathrina Mazurik** (Psychology) *The Repertoires of Relatedness: Understanding the Parent-Child Relationships of Young Adults Who Live at Home*

**Joshua Neudorf** (Psychology) *Relating Structural Connectivity to Brain Function Using Deep Learning, Graph Theory, Complexity, and Disease*

**Darryl Quinlan** (Psychology) *Is Training in Martial Arts Beneficial to One's Health? The Devil in in the Detail*

**Andrea Scerbe** (Psychology) *Digital Tools for Delivery of Dementia Education: Increasing Rural Accessibility for Dementia Care*

**Brandon Sparks** (Psychology) *Swiping Away Tear: Incels, Dating Applications, and Social Supports*

**Cailey Strauss** (Psychology) *Face to Face: A Reflexive Thematic Analysis of Victim-Offender Mediation*

**Farron Wielinga** (Psychology) *Use of Dynamic Risk Instruments to Assess Sexual Violence Risk in a Community-Supervised Sample OE Men with Sexual Violence Convictions*

**Travis Reynolds** (Public Policy) *The Endogenous Nature of Corporate Governance: A Comparison of Consumer and Producer Co-ops*

**Jebunnessa Chapola** (Women's, Gender, and Sexualities Studies) *A Racialized Settler Woman's Transformative Journey in Canada: Building Relational Accountabilities*

**Daniel Udenze** (Vaccinology Immunotherapeutics) *Comparative Infection Phenotypes of Wild-Type and CpG-Recoded Zika Virus Variants In Vitro and In Vivo*

**Breanna Arnold** (Veterinary Biomedical Sciences) *Effects of Repetitive Intermittent Hypoxia After Acute and Chronic Spinal Cord Injury*

**Michelle Tucker** (Large Animal Clinical Sciences) *Feasibility of Individualized Airway Surgery in Horses*

**Ivanna Kozii** (Veterinary Pathology) *Neonicotinoid Toxicity in Reproductive Honey Bee Castes*