



BOOTS on the Ground

BE WHAT THE WORLD NEEDS

Issue 4 | June 2023



Credit: FarmPhotos.ca Photo Library

WHO WE ARE

INTERESTED IN THE PAST YEARS' ACTIVITIES AT THE CENTRE?
CHECK OUT OUR ANNUAL REPORTS AT
CCHSA-CCSSMA.USASK.CA

The Canadian Centre for Rural and Agricultural Health is an embodiment of research to action in the health and safety of rural and agricultural populations.

OUR MISSION:

Development and dissemination of research, services, resources, and knowledge for the health and safety of rural and agricultural populations.

OUR VISION:

A world where people who live and work in rural, remote, and agricultural settings are healthy and safe.

OUR STRATEGY:

We are a developer, collaborator, source, connector, and catalyst to advance research, knowledge translation, extension, and service in the health and safety of rural and agricultural populations.

OUR VALUES:

Partnering, Collaboration, Innovation,
Commitment, Sharing, Impact

CENTRE HIGHLIGHTS

NAME CHANGE! Effective: June 1st, 2023

The Canadian Centre for Health and Safety in Agriculture (CCHSA) is now:



Canadian Centre for Rural and Agricultural Health

Our new name reflects the scope of our research, services, and knowledge mobilization activities, growing health and safety for rural and agricultural populations in Canada and beyond.

Save the
Date!

OPEN HOUSE - Event and Tours

September 26th, 2023 @ 10:30 am to 12 noon

University of Saskatchewan

Health Sciences E-Wing Atrium and Room 1200



BE WHAT THE WORLD NEEDS

[RSVP to Open House](#)



On April 18, the University of Saskatchewan launched its most ambitious fundraising campaign ever: "Be What the World Needs". Four priority areas were chosen to lead the University to the future:

- Lead Critical Research
- Support Indigenous achievement
- Inspire Students to Succeed
- Design Visionary Spaces

Dr. Shelley Kirychuk, director of the Canadian Centre for Rural and Agricultural Health, Dr. Merle Massie, Professional Research Associate, and Sueli de Freitas, Centre Communications, were present at the launch, which took place at Merlis Belcher complex.

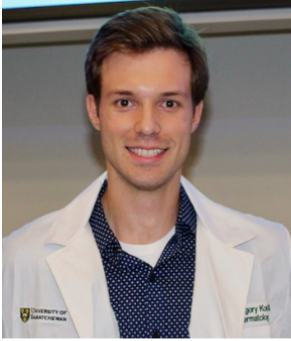


Dr. Shelley Kirychuk & Anna Burton



From left to right: Sueli B. de Freitas, Merle Massie, Sarbjit Singh, Shelley Kirychuk

Welcome to the Centre



Gregory Kost

"I completed my medical education at the University of Saskatchewan, I am a current PGY2 in Dermatology at the University of Saskatchewan. My clinical interests include cutaneous malignancies, dermatological surgery and teledermatology. When I am not in clinic I enjoy playing golf and tennis as well as spending summers at my lake."

Dr. Kost spent 4 weeks at the Centre under Dr. Koehncke's supervision.



Pardis Keshavarz

"In January 2018, I relocated to Saskatoon with my husband and started to study a PhD in Nutrition at the University of Saskatchewan. During my PhD program, I was honored with multiple awards and served as the student representative at the Research Graduate Affairs Committee. My experience in Nutritional Epidemiology spans five years, and I am excited to broaden my research experiences by exploring new areas."

Pardis is working as a Post Doctoral Fellow under Dr. Kirychuk's supervision.



Shelley Biller

Shelley brings extensive clerical and clinic experience to her work as a Administrative Assistant (Research Clerical Assistant) for Dr. Dosman and Dr. Koehncke.



Daniel Chao

Daniel Chao is an undergraduate student in Interdisciplinary Studies. Daniel will be working in the Mass Spectrometry for Omics Research Laboratory on the "Get your Head Straight: A pilot study of vibration-related micro-concussions" project under the supervision of Dr. George Katselis.

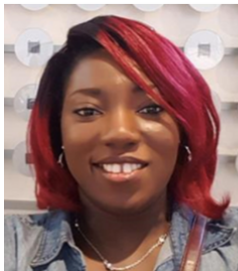
Faculty, Staff, and Student News

CONGRATULATIONS!



Congratulations to Dr. Julie Kosteniuk!

Dr. Julie Kosteniuk has accepted a new position as Assistant Professor joining the Canadian Centre for Rural and Agricultural Health in a tenure-track role focused on rural dementia care starting July 2023.



Oluwakemi (Kemi) Abosede Awe on the successful defense of her PhD dissertation in the School of Public Health!

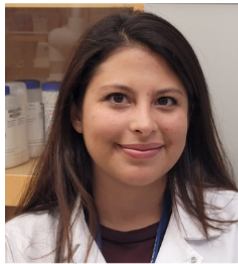
PhD dissertation: "Burden of Back Pain among Postpartum Women in Canada: A Mixed Methods Study of the Prevalence, Risk Factors, Comorbidities and Lived Experiences." Co-Supervisors: Drs. Marwa Farag & Brenna Bath Defense Date: December 12th, 2022.



Kaitlin Merkowsky, supervised by Dr. Shelley Kirychuk, successfully defended her PhD titled "Characterizing Lung Inflammation in Agricultural Respiratory Exposures between the Sexes" on April 27th, 2023. Congratulations, Dr. Merkowsky!



Megan Tomilin was awarded Best Graduate Student Oral Presentation at the CNPN Trainee Symposium on Monday, May 15th in Regina, Saskatchewan for her presentation on "Saving it for later: Dietary Leftovers Identified from Proteins preserved on Ancient Animal Teeth". Megan was also invited to present her talk to other researchers at the CNPN Main symposium on Wednesday, May 17th.



Alejandra Castillo Toro, supervised by Dr. Shelley Kirychuk, has been awarded a 2023-24 College of Medicine Graduate Student Award as well as the 2023-24 Respiratory Research Centre Student Award.



Lucas Julseth, supervised by Dr. George Katselis, was awarded a 2022-23 Health Sciences Graduate Scholarship and 2023-24 College of Medicine Graduate Student Award.



Daniel Chao, who is currently working on a project that is co-supervised by Dr. George Katselis, was awarded a Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award for his summer placement in the laboratory.



Congratulations to Dr. Angelica Lang!



Dr. Angelica Lang, Director of the Musculoskeletal Health and Ergonomics Lab, was recently awarded a Discovery Grant from NSERC for her research. The \$165,000, five-year grant will allow her to advance her investigation of the most repeatable and reliable methods for scapular motion tracking and analysis. As an early-career researcher, she also received a Discovery Launch Supplement of \$12,500. She hopes to develop a standardized procedure to measure movements of the scapula – commonly known as the shoulder blade – eventually leading researchers to greater understanding of what causes shoulder pain and how to remedy it.



SHRF
SASKATCHEWAN
HEALTH RESEARCH
FOUNDATION

Impact Grant
2022-23 Recipients



Shelley Kirychuk University of Saskatchewan
Kerry McPhedran University of Saskatchewan
Lori Bradford University of Saskatchewan
Wanda Martin University of Saskatchewan

**Enhancing Wellness in our
Miyo Wāskahikan**



**RURAL & REMOTE
HEALTHCARE**
Focus Area

#SHRFsolutions
Total investment: \$150,000



SHRF
SASKATCHEWAN
HEALTH RESEARCH
FOUNDATION

Innovation Grant

2022-23 Recipient

Allison Cammer

University of Saskatchewan

The Cognitive Kitchen: An Evidence-Based Nutrition and Socialization Program for Rural Caregiver Support



VIRTUAL CARE
Focus Area

#SHRFsolutions

Total investment: \$49,509



SHRF
SASKATCHEWAN
HEALTH RESEARCH
FOUNDATION

Impact Grant

2022-23 Recipient

Megan O'Connell

University of Saskatchewan

Re-imagining How Care Partner Support is Delivered by the Alzheimer Society of SK to Include Research-Supported Therapy



VIRTUAL CARE
Focus Area

#SHRFsolutions

Total investment: \$148,953

Align Grant

2023-24 Child & Youth Health

Joshua Lawson

University of Saskatchewan



Childhood Asthma and Mental Health

Total value of research investment: \$9,993

#SHRFconnections 



Department of Medicine Awards Night

The Centre's Department of Medicine faculty members Drs. Josh Lawson, Niels Koehncke, Angelica Lang, and Shelley Kirychuk attended the Department of Medicine awards night.

Drs. Niels Koehncke and Monique Mayer placed first in the Department of Medicine Faculty Research Day for his presentation on "Blood and Hand Surface Lead in Veterinary Workers using Lead Shielding during diagnostic radiography"



Top left Photo: Dr. Josh Lawson presenting the Department Research Day Presentation Award to Drs. Niels Koehncke and Monique Mayer. **Bottom left (from Left to Right):** Dr. Shelley Kirychuk, Dr. Josh Lawson, Dr. Allison Cammer, Dr. Angelica Lang, Colby Schemenauer, and Dr. Niels Koehncke at the Department of Medicine Awards night.



IG Wealth Management Walk For Alzheimer's - Saskatoon 2023

Drs. Shelley Kirychuk and Allison Cammer participated in the Alzheimer's walk on May 27th. Recognizing and remembering family and friends impacted by the disease, and the impactful research, service, and knowledge mobilization the Centre engages in to support dementia diagnosis, treatment, and care for those in rural communities.



L to R: Drs. Allison Cammer and Shelley Kirychuk

THE SEMINAR SERIES WILL RETURN IN SEPTEMBER 2023!



Topics include current issues in agricultural and rural health research and practice. Seminar speakers include those affiliated with the Centre, with other departments at U of S, and visitors to the university such as those from other institutions or government. We encourage presentations from students, researchers, Centre staff, and practitioners. The 30 to 40-min presentation format emphasizes discussion of topics and encourages participant interaction with speakers.

The Canadian Centre for Rural and Agricultural Health's seminar series is a biweekly lecture delivered by invited speakers on Tuesdays from 2:30-3:30 during the academic term. The seminars are delivered both online via zoom and in-person at the Centre

If you wish to present during our seminar series, please contact:

Dr. Angelica Lang
angelica.lang@usask.ca

Check out our previous seminars on our website!

Centre Seminar Series

Angelica Lang's Contact info

SERVICE & KNOWLEDGE MOBILIZATION

MHAC  Musculoskeletal Health
& Access to Care

Access to Low Back Pain Care: The Saskatchewan Landscape

In February, the Musculoskeletal Health and Access to Care (MHAC) research group, led by Drs. Brenna Bath and Stacey Lovo, hosted two end of project knowledge translation events (one in-person and one virtually). There was a total of 63 participants over the course of both events. These events showcased MHAC's Canadian Institute of Health Research (CIHR) funded research project findings from interviews with over 40 people with chronic low back pain and health care providers, as well as a telephone survey of nearly 400 Saskatchewan residents with chronic low back pain. Panel presentations from both patient-partner and health care provider team members also provided lived experience and insight into access and provision of low back pain care in Saskatchewan.

The second part of the events was an interactive World Café facilitated discussion with and among attendees to generate ideas for recommendations and actionable change to improve access to low back pain care in the province and beyond. Thank you to everyone who attended.



The event report and other knowledge translation outputs will be shared on the MHAC website in the coming months.

MHAC website

AGRICULTURAL HEALTH AND SAFETY NETWORK

Stronger Together for Ag Health and Safety



1988 - 2023

aghealth.usask.ca

In 1998, the Agricultural Health & Safety Network began as a joint venture with the Saskatchewan Association of Rural Municipalities (SARM) and six Saskatchewan Rural Municipalities. The Network functions as part of the Centre's rural extension division and grew to 196 RMs as of June, 2023.

Health and safety information and programs are delivered to over 22,000 Saskatchewan farm families - more than half of all the farm families in Saskatchewan.

Member RMs can request clinics and Discovery Days.



[Network website](#)

DISCOVERY DAYS



Hi, I'M TODD! I COME ALONG TO ALL THE NETWORK'S DISCOVERY DAYS PRESENTATIONS AT YOUR SCHOOLS. I LOVE TO SHARE FARM SAFETY TIPS WITH THE CHILDREN AND TO REMIND THEM THAT SAFETY IS AN EVERYDAY TASK. CANNOT WAIT UNTIL WE MEET AGAIN!

Recent Discovery Days Presentations:

May 8, 2023

- Eagle Creek Colony School, RM of Eagle Creek No. 376, Div 5

May 11, 2023

- Battleford Ag Society, RM of Battleford No. 437, Div 6

May 17, 2023

- Hillcrest Colony School, RM of Dundurn No. 314, Div 5

May 25, 2023

- Preeceville School, RM of Preeceville No. 334, Div 4

May 30, 2023

- Hudson Bay Community School, RM of Hudson Bay No. 394, Div 4

May 31, 2023

- Miner Creek Colony School, RM of Bjorkdale No. 426, Div 4



If you wish to host a clinic in your RM or wish to book an appointment at the Network's clinic at the University of Saskatchewan, please contact us!



Want to host a Hearing or Respiratory Clinic for your farm families?
Would you like a Discovery Days event at your local school?
Contact (306) 966-6643

Network Email

PROGRESSIVE AGRICULTURE SAFETY DAYS Agricultural Health and Safety Network



Progressive Agriculture Safety Day® Program

The Agricultural Health and Safety Network participated in Progressive Agriculture Safety Day in Biggar and North Battleford. Progressive Agriculture Safety Day (PAF Safety Day) is a health education program for children in North America which provides education, training, and resources to make farm, ranch, and rural life safer and healthier for all children and their communities. Our Discovery Days programming is a great fit.

Since the inception of the Program in 1995, more than 1.9 million individuals have been reached in 45 states, two territories, and nine Canadian provinces.



The Agricultural Health and Safety Network booth at Progressive Ag Days in North Battleford, SK - May 11th, 2023.



Photos above are from Progressive Ag Days in Biggar, SK - June 1st, 2023.

MAKING THE REALITY REAL : HEALTH AND SAFETY IN AGRICULTURE WITH REG STEWARD Agricultural Health and Safety Network



Work to live.

Thank you to Work Safe Saskatchewan for sponsoring the event and leading the Ag Large Animal Learning Group here in Saskatchewan. The Agricultural Health and Safety Network is pleased to work with this amazing group of industry partners working together in injury prevention efforts in the livestock industry. We are looking forward to future workshops in 2023/2024 with Reg Steward!



Reg Steward presenting at the workshop at Saskatoon Livestock Sales on May 17th, 2023.



WorkSafe Saskatchewan booth at the workshop in Saskatoon on May 17th, 2023.

SASKATCHEWAN'S FAMOUS WILL IS A LESSON IN FARM SAFETY

Canadian Centre for Rural and Agricultural Health - in the News



Cecil George Harris' handwritten will on the fender of his Case tractor. 'In case I die in this mess I leave all to the wife.'

On June 8th, 1948, Cecil George Harris of McGee, Saskatchewan (near Rosetown) suffered a devastating farm injury when his Case tractor rolled backward, pinning him by the leg under the big steel wheel, crushed and helpless.

His handwritten will, carved into the fender of his tractor, became one of Saskatchewan's most famous legal cases. It even made Ripley's Believe it Or Not.

Dr. Merle Massie, historian and Professional Research Associate at the Centre, wrote about the event for CBC news, and was a featured guest on CBC's The Afternoon Edition.

Read the chilling lesson in farm safety via the link below.

[Read Harris' story on CBC website](#)

38TH ANNUAL
HIGHLIGHTS IN MEDICINE
CONFERENCE AND REUNION

PUBLIC LECTURE PRESENTATIONS
June 17, 2023 | Health Sciences E-Wing 1150

Through the support of USASK College of Medicine donors, the Highlights in Medicine Conference program includes three public lectures that are FREE for the medical community to attend.

Dr. Jim Dosman

Clara & Frank Gentler Lectureship in Medicine

Housing Conditions in First Nations Communities: Breathing, Sleeping, Being

Dr. Mark Fenton

Betty-Ann & Wade Heggie Lectureship in Integrative Medicine

"Till sleep when I'm dead": A Catalyst for Burnout

Dr. Anita Chakravarti

Dr. Anita Chakravarti Lectureship in Health and Wellness

"How Do We Achieve Wellbeing Now?"

Building Connection, Compassion & Community



UNIVERSITY OF SASKATCHEWAN

College of Medicine

ALUMNI ASSOCIATION
MEDICINE.USASK.CA/ALUMNI

RESEARCH

OCCUPATIONAL HYGIENE AND HEALTH LABORATORY
National Agricultural and Industrial Hygiene Laboratory

MEET OUR TEAM!



Dr. Shelley Kirychuk
Faculty Lead



Dr. Niels Koehncke
Faculty Lead



Brooke Thompson
Lab Manager



Dr. Merle Massie
Prof. Research Associate



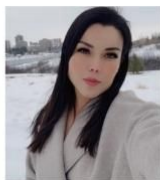
Dr. David Schneberger
Prof. Research Associate



Dr. Pardis Keshavarz
Post-Doctoral Fellow



Charly Nolting
Research Assistant



Sheila Naytowhow
Research Assistant



Dr. Upkar Pandher
Research Assistant



Pezhman Zolfaghari Didani
PhD Student



Dr. Kaitlin Merkowsky
PhD Student



Alejandra Castillo Toro
MSc Student

[Occupational Hygiene Laboratory site](#)

NEWS FROM THE OCCUPATIONAL HYGIENE AND HEALTH LABORATORY

Charly Nolting and Alejandra Castillo Toro continue to travel to pig and poultry barns in Saskatchewan to take bioaerosol samples at various distances from the barns. These samples will inform projects at the Centre, University of Laval and the Research and Development Institute for the Agri-Environment (IRDA).

Dr. Niels Koehncke had two medical residents complete their occupational medicine rotation with him at the Centre. Dr. Sharon Feng and Dr. Gregory Kost both presented seminars as part of their rotation. At the end of their rotation at the Centre, Dr. Sharon Feng presented on lead poisoning and Dr. Gregory Kost presented on sun exposures.



For more information on the laboratory, services we offer, and pricing inquiries:

Please contact our Faculty Lead
Dr. Shelley Kirychuk
shelley.kirychuk@usask.ca

OR contact our Laboratory Manager
Brooke Thompson
brooke.thompson@usask.ca

Our Fees for Service, Publications and projects can be found on our website!

MASS SPECTROMETRY LABORATORY FOR OMICS RESEARCH National Agricultural and Industrial Hygiene Laboratory

MEET OUR TEAM!



Dr. George Katselis
Faculty Lead



Brooke Thompson
Lab Manager



Dr. Paulos Chumala
MS Technician



Roman Koziy
PhD Student



Megan Tomilin
PhD Student



James Matheson
MSc Student



Lucas Julseth
MSc Student



Noah Willfong
Undergraduate Student



Daniel Chao
Undergraduate Student

For more information on the laboratory, services we offer, and pricing inquiries:

Please contact our Faculty Lead
Dr. George Katselis
george.katselis@usask.ca

OR contact our Laboratory Manager
Brooke Thompson
brooke.thompson@usask.ca

Our Fees for Service, Publications and projects can be found on our website!

Mass Spectrometry website

NEWS FROM THE MASS SPECTROMETRY LABORATORY FOR OMICS RESEARCH

Dr. George Katselis, Megan Tomilin, and Noah Willfong

recently attended the Canadian National Proteomics Network (CNPN) Conference that was held in Regina, SK at the University of Regina from May 15th to 17th. The conference covered research in the theme of "Pushing Omics to One Health".

Both Megan and Noah presented the results from their projects at the Trainee Symposium on May 15th.

Megan was invited to present her talk "Saving it for later: Dietary Leftovers Identified from Proteins preserved on Ancient Animal Teeth" at the Main symposium on May 17th.



Megan Tomilin and Noah Willfong presenting their projects at CNPN.

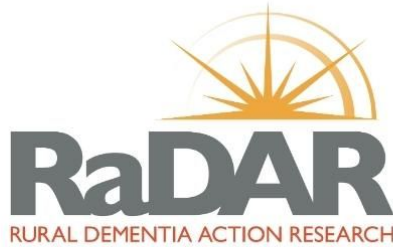


Trainees, including Megan Tomilin and Noah Willfong, at the CNPN Conference.



RURAL DEMENTIA ACTION RESEARCH (RaDAR)

The RaDAR research program is led by Dr. Debra Morgan and guided by The Knowledge Network in Rural and Remote Dementia Care. The Network includes front-line health care providers and managers, people living with dementia and family members, health region representatives, international researchers, and individuals from governmental and community-based organizations. The Network meets at the annual Rural Dementia Care Summit, the RaDAR team's key knowledge exchange event, where Network members provide input into new and ongoing research projects.



SIGN UP FOR THE RaDAR NEWSLETTER!

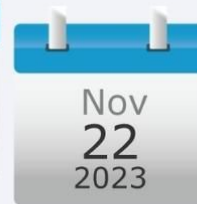
Previous editions of the newsletter can be found on our website!

To join our mailing list, please contact:
Valerie Elliot
v.elliott@usask.ca

MARK YOUR CALENDAR AND SAVE THE DATE!

THE 16TH ANNUAL SUMMIT MEETING by the RaDAR team

The next online Rural Dementia Care Summit takes place on:



Updates on Summit planning for 2023, and information from past Summit events are available on our website!



RaDAR website

Dementia care summit

RURAL AND REMOTE MEMORY CLINIC (RRMC) Rural Dementia Action Research (RaDAR)

The RaDAR team implemented the specialist RRMC in 2004, to provide diagnosis and management of atypical and complex cases of suspected dementia. The one-stop interdisciplinary clinic streamlines the assessment process by coordinating a complete team assessment and feedback on one day, and uses Telehealth videoconferencing for follow-up appointments. The specialist RRMC was started as a research project and now receives funding from the Saskatchewan Ministry of Health to provide clinical services to Saskatchewan residents.



RRMC team members meet with patient at the end of day to communicate diagnosis, and provide information about options for treatment and care - image credit Tara Yolan Productions

During COVID-19, the specialist RRMC adapted our method of providing services to the community by remotely delivering clinical services and interventions. Patients and family members met with our interdisciplinary team virtually, using secure web conferencing, or teleconferencing, depending on the technology available to them in their home. The clinic adapted its referral process for health care practitioners as well to better meet their needs during the pandemic. The team has recently returned to in-person appointments while maintaining virtual appointments as an option for team follow-up visits as appropriate.

Since 2004 over 850 patients have been seen in the clinic.

RRMC

MEET THE RRMIC TEAM! Who are we and what do we do? Rural and Remote Memory Clinic (RRMC)



Dr. Debra Morgan
Administrative
Director



Dr. Andrew Kirk
RRMC
Neurologist



Dr. Megan O'Connell
RRMC Clinical
Director



Jennifer Fairbairn
RRMC
Physiotherapist



Darla Walz
RRMC Clinic
Nurse



Duane Minish
RRMC
Psychometrist



Julie Jensen
RRMC
Physiotherapist



Dr. Ivan Panyavin
RRMC Staff

Our Services, Publications and dementia resources can be found on our website!

COMING SOON!

Meet RaDAR's collaborators in the next edition of the BOTG newsletter!

Meet the RRMIC Team

Musculoskeletal Health and Ergonomics Lab



Musculoskeletal
Health &
Ergonomics
Lab



About Our Lab

The Musculoskeletal Health and Ergonomics (MHE) Lab is a research group housed in the Canadian Centre for Rural and Agricultural Health, led by Dr. Angelica Lang. We are situated on Treaty 6 Territory & the Homeland on the Métis. The vision of the MHE Lab is to improve musculoskeletal health and quality of life of people around the world, but with a focus on Saskatchewan. Our goal is to understand how movement and biomechanics are related to injury, musculoskeletal health, and work. We intend to develop robust methods for measurement and analysis in the lab, field, and clinic to comprehensively define motion, particularly of the upper limb, across acute and chronic musculoskeletal conditions. The overall intended contribution of the lab is to improve health through enhanced understanding and application of ergonomic, return-to-work, and rehabilitation interventions.

Want to learn more about the Ergo lab's research? Check out the Musculoskeletal Health and Ergonomics Lab website!



INNOVATION.CA
CANADA FOUNDATION FOR INNOVATION | FONDATION CANADIENNE POUR L'INNOVATION

Musculoskeletal Health and Ergonomics Lab

MEET OUR TEAM!



Dr. Angelica Lang
Faculty Lead

For more information on the laboratory, services we offer, and pricing inquiries:
Please contact our Faculty Lead [Dr. Angelica Lang](mailto:angelica.lang@usask.ca)
angelica.lang@usask.ca



Jackson Lordall
Graduate Research Assistant



Lauryn Campbell
Research Assistant



Opeyemi Vincent Akinluyi
MSc Student



Alexander Waslen
Undergraduate Student



Annaka Chomeyko
Undergraduate Student



Vivian Heinrichs
Undergraduate Student

Rural Health Laboratory

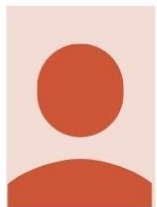
MEET OUR LEADS!



Dr. Josh Lawson
Faculty Lead



Dr. James Dosman
Faculty Lead



Dr. Punam Pahwa
Faculty Lead



Dr. Shelley Kirychuk
Faculty Lead

About the Lab

The Rural Health lab supports multiple projects relating to rural and agricultural health in the following areas:

- Mental Health
- Indigenous Health
- Sleep Health
- Respiratory Health
- Injury Prevention

First Nations Built Environment Research Group



Throughout the summer, the Built Environment research group will continue to meet with First Nation communities to discuss topics in housing, housing maintenance, policy, food & water security, and needs in their communities.

News from the Rural Health Laboratory

- **Mental health surveys** have been in development for our First Nations Mental Health Project.
- **The First Nations Built Environment Research Group** met with representatives from multiple First Nation communities in May and June. The research group and representatives talked about housing, policy and infrastructure in their communities.

Research Participants Needed

Feasibility and Acceptability of a Physiotherapist Led Education and Exercise Program for People with Osteoarthritis Awaiting Hip or Knee Total Joint Arthroplasty

PARTICIPANTS NEEDED
ASSESSING NON-SURGICAL
MANAGEMENT OF HIP OR KNEE
OSTEOARTHRITIS



We are looking for people who:

- have hip or knee osteoarthritis
- are currently on the surgical waitlist for hip or knee joint replacement surgery

As a participant in this study, you would be asked to:

- complete a series of questionnaires and functional assessments
- complete a Saskatoon-based physiotherapy-led osteoarthritis exercise program (8-weeks, twice weekly, 1-hour exercise sessions)

For more information for this study, contact:

Brenna Bath, Principal Investigator
School of Rehabilitation Science
College of Medicine

306-966-6573 OAResearch@usask.ca or on [our website](#)



This study has been approved by the
University of Saskatchewan Biomedical
Research Ethics Board



Wait times for hip and knee joint replacement surgery in Saskatchewan are the longest in Canada and have grown even longer during the Covid-19 pandemic. Education and exercise management are recommended internationally as key treatment approaches for people with hip and knee osteoarthritis (OA) prior to surgery. This project will evaluate the feasibility and acceptability of a physiotherapist-led education and exercise program for people who are awaiting hip or knee replacement surgery. This project represents an opportunity to evaluate an innovation that can potentially reduce the surgical backlog and improve post-operative outcomes for those who have joint replacement surgery.

For more information or to participate, please contact:



Brenna Bath
Principal Investigator,
School of Rehabilitation
Science, College of Medicine

[Learn more on osteoarthritis project](#)

School of Rehabilitation Science & Canadian Centre for Health & Safety in Agriculture

UNIVERSITY OF SASKATCHEWAN

PARTICIPANTS NEEDED FOR RESEARCH IN FARM SAFETY

We are looking for agricultural machinery operator volunteers to take part in a study to evaluate on-farm strategies to reduce the negative effects of occupational vibration exposure.

As a participant you will be asked to take part in a series of in-field break activities during your normal daily work, use provided electronics to collect vibration exposure data, and complete a short safety habit survey.

Your participation would involve 1 day on-farm vibration exposure measurement and taking part in a break activity during your normal in-field working day. Break timing is flexible.
All activities and data collection will take place in-field.

For more information or to volunteer for this study, please contact:

Dr Dena Burnett
Post-Doctoral Researcher, School of Rehabilitation Science
at
306-241-8727 or
Email: dena.burnett@usask.ca

This study has been approved by the University of Saskatchewan Biomedical Research Ethics Board



UNIVERSITY OF
SASKATCHEWAN

usask.ca

Learn more on the Take A Break from the Shake project

Poultry and Pig Farmers!

Our NSERC Frontiers project evaluates bioaerosols and greenhouse gas emissions from swine and poultry operations throughout Saskatchewan.

Airborne samples will help us understand if operational changes could impact these measures.

We want to sample (at the exhaust fans):

- 8 pig finishing operations - 4 conventional and 4 antibiotic free
- 8 poultry operations - 4 conventional and 4 antibiotic free



Canadian Centre
for Rural and Agricultural Health

For more information or to participate, please contact:

Brooke Thompson
brooke.thompson@usask.ca
(306) 966 - 6154

Charly Nolting
can291@mail.usask.ca
(306) 966 - 1683

How do time and rural residence affect upper limb biomechanical alterations in rotator cuff disease?

Do you have shoulder pain?



Researchers at the University of Saskatchewan are looking for **volunteers from rural Saskatchewan with shoulder pain for at least the past 3 months** to take part in a motion-tracking study of the upper limb.



As a participant in this study, you would be asked to complete a number arm-focused tasks while your motion is tracked in our lab on the U of S campus. Your participation would involve 3 sessions, each 6 months apart, of approximately 2 hours.

You will be compensated for your time.

For more information, or to volunteer, please contact the Study Coordinator:

Lauryn Campbell
Email: lmc683@mail.usask.ca

or the Principal Investigator:
Dr. Angelica Lang
Email: angelica.lang@usask.ca
Phone: 306-966-5544



BE WHAT THE WORLD NEEDS

Upper limb pain is extremely common. The most frequent cause of pain and disability of the upper limb is injury to rotator cuff muscles, the small muscles surrounding the shoulder. Our team's previous research suggests there are movement strategy alterations that are related to rotator cuff disease development, but more research is needed to define this relationship. The effect of rural residence on musculoskeletal health needs to be considered due to the social, occupational, and health care access differences that exist compared to urban dwellers. The goal of this project is to better understand the biomechanics, or movement, aspects of rotator cuff disease over time to prevent injury progression and improve rehabilitation outcomes for people with shoulder pain in Saskatchewan.

How to Get Involved

1. Saskatchewan residents with shoulder pain.
2. People with shoulder pain from rural Saskatchewan (postal code begins with S0)
3. Over 18 and have experienced shoulder pain for at least the past 3 months

For more information or to participate, please contact:

Lauryn Campbell
Study Coordinator
lmc683@mail.usask.ca

Dr. Angelica Lang
Principal Investigator
angelica.lang@usask.ca

Learn more on the rotator cuff disease study

Grants, Publications and Presentations

GRANT FUNDING:

- **Bath B (NPI), Crockett K (Co-PI), Farag M (Co-I), Epp C (Co-I), Graham AM (Co-I), Awe O (Co-I), Legg H (Co-I)** Bridging Access to Physiotherapy Care Gaps for Saskatchewan Mothers. \$99,960. Jim Pattison Children's Hospital Foundation Research Grant, (April 2023-March 2025).
- **Miller J (NPI), Hondronicols A, Richardson J, Wojkowski S, Thille P, Bath B, Perreault K, Sauvé D, Stevenson E.** Developing a set of essential competencies and training program for physiotherapists working in interprofessional primary care teams. \$150,000. Foundation for Advancing Family Medicine (FAFM)'s Workplace Integrated Demonstration Grant. (March 2023-Feb 2024).
- **Kiryuchuk S (NPI). Co-PIs: Martin W, McPhedran K, Bradford L. Co-applicants: Soltan J, Ramsden V, Pahwa P, Campbell D, Fonstad T, Karunanayake C, Dosman J, Abonyi S.** Enhancing wellness in our miyo wāskahikan, SHRF Impact Grant, \$150,000. (April 2023 to March 2025)
- **Mayer M (NPI), Koehncke N, Sukut S.** Is surface lead on radiology shielding a risk for adverse health effects in private practice veterinary workers? American College of Veterinary Radiology Diplomate Research Award, \$8,132.82 (USD). (January 2023 - December 2025)
- **Joundi R, Chong M, O'Connell ME, Patten SB, Sharma M, Smith E, Salim Y.** (2022-2023). Investigating novel targets and inflammatory pathways of cognitive decline in the CLSA. \$70,000 (CAD). Catalyst Grant, Analysis of Canadian Longitudinal Study on Aging (CLSA) Data, Canadian Institutes of Health Research (CIHR).
- **Oremus M, O'Connell ME, Zeng L, Tyas SL, Maxwell CJ.** (2022-2023). Exploring the dynamic nature between cognitive function and depressive symptoms. \$69,778 (CAD). Catalyst Grant, Analysis of Canadian Longitudinal Study on Aging (CLSA) Data, Canadian Institutes of Health Research (CIHR).
- **O'Rourke HM (NPI), Hoben M, Peacock S. (PIs), Bethell J, Boscart V, Chamberlain S, Cranley L, Ghosh S, Hopper T, McGilton K, O'Connell ME. (Co-Is), Deobald V, Duncan D, Eager C, Friesen S, Huhn A, Maisey S, Michael J, Peck S, Sand A. (Collaborators).** (2023-2024). Connecting today to combat social isolation and loneliness: A pragmatic cluster RCT of a remote visiting program for care home residents living with Dementia. \$100,000 (CAD). Project Grant Patient-Oriented Research: Early-Career Investigator Priority Announcement, Canadian Institutes of Health Research (CIHR).
- **Lang, A.** (April 2023 - March 2028). Scapular kinematics and functional movement: exploring best practice methods from calibration to application, 177500.0 (CAD). Discovery Grant - Individual, Natural Sciences and Engineering Research Council (NSERC) of Canada.

PUBLICATIONS

- **Arnold C, Bath B, Prosko S, Ritchie K, Hunter K.** (2022) Mindful and Compassionate Self, Grounded Together: A Qualitative Description of Postmenopausal Women's Perceptions of Balance Flow Yoga. *Int J Yoga Therap.* 2022 Jan 1;32(2022): Article 20. doi: 10.17761/2022-D-21-00069. PMID: 36867859.
- **Dyck RF, Pahwa P, Karunanayake C, Osgood ND.** (2023) The contribution of gestational diabetes to diabetes risk among First Nations and non-First Nations women in Saskatchewan: Results from the DIP: ORRIGENSS Project. *Canadian Journal of Diabetes* (2023), doi: <https://doi.org/10.1016/j.jcjd.2023.04.017>.
- **Friesen KB, Sigurdson A & Lang AE.** (2023). Comparison of scapular kinematics from optical motion capture and inertial measurement units during a work-related and functional task protocol. *Med Biol Eng Comput.* <https://doi.org/10.1007/s11517-023-02794-2>
- **Pandher U, Kiryuchuk S, Schneberger D, Thompson B, Aulakh G, Sethi RS, Singh B.** (2023). Adhesion Molecules in Lung Inflammation from Repeated Glyphosate Exposures. *International Journal of Environmental Research and Public Health*, 20(8):5484. <https://doi.org/10.3390/ijerph20085484>
- **Bacsu JD, Andrews M, Azizi M, Berger C, Cammer A, Chasteen AL, Fraser S, Green S, Grewal KS, Gowda-Sookchoff R, Mah JC, McGilton KS, Middleton L, Nanson K, Spiteri RJ, Tang Y, & O'Connell ME.** (Accepted, 2023). Understanding vaccine ageism during the COVID-19 pandemic: Infodemiology study. *The Gerontologist*.
- **Bacsu JD, Kortzman A, Fraser S, Chasteen A, McDonald J, & O'Connell ME.** (2023). Understanding intersectional ageism and stigma of dementia: A systematic scoping review protocol. *JMIR Research Protocols*, 12, e46093, <https://doi.org/10.2196/46093>
- **Grewal KS, Gowda-Sookchoff R, Kirk A, Morgan D, & O'Connell ME.** (2023). Base rates of low neuropsychological test scores in older adults with subjective cognitive impairment: Findings from a tertiary memory clinic. *Applied Neuropsychology: Adult.* <https://doi.org/10.1080/23279095.2023.2208699>
- **Scerbe A, O'Connell ME, Astell A, Morgan D, Kosteniuk J, Panyavin I, DesRoches A, & Webster C.** (2023). Digital tools for delivery of dementia education for caregivers of persons with dementia: A systematic review and meta-analysis. *Plos One.* 18(5): e0283600. <https://doi.org/10.1371/journal.pone.0283600>
- **Massie M.** (2023) The story of Cecil George Harris' historic will is also a chilling lesson in farm safety. *CBC Saskatchewan* June 8 2023. <https://www.cbc.ca/news/canada/saskatoon/history-cecil-george-harris-will-farm-safety-1.6868417>.
- **Friesen, K. B., Wu, L. Z., Waslen, A., & Lang, A. E.** (2023). Defining repeatability for scapulothoracic and thoracohumeral motion during the novel Work-Related Activities and Functional Task (WRAFT) protocol. *Journal of Biomechanics*, 111596.

PRESENTATIONS

- **Mayer M, Feng T, Sukut S, Wiebe S, Parker S, Blakely B, Koehncke N.** Blood and hand surface lead in veterinary workers using lead shielding during diagnostic radiography. American Occupational Health Conference 2023, Philadelphia, PA, USA, April 16-19, 2023
- **Willfong N, Chumala P, Thompson B, Ianowski J, Katselis G.** The Kiss of Death: Proteomics Characterization of Insecticide Resistance in *Triatoma infestans*. CNPN Conference 2023, May 15-17, 2023, Regina, Saskatchewan.
- **Tomilin M, Greenfield T, Holmden C, Chumala P, Katselis G.** Saving it for Later: Dietary Leftovers Identified from Proteins preserved on Ancient Animal Teeth. CNPN Conference 2023, May 15-17, 2023, Regina, Saskatchewan.
- **Kiryuchuk S, Rabbitskin N, Bighead S, Karunanayake C, Thompson B, Longjohn C, Davis B, Ermine P, Dolovich L, Dosman JA, Fenton M, Graham H, Lamarche L, Jacobson N, Turner T, Ramsden VR.** māmawōhkamātowin (working together) to enhance wellness. Department of Medicine Faculty Research Day, May 5, 2023
- **Mayer M, Feng T, Sukut S, Wiebe S, Parker S, Blakely B, Koehncke N.** Blood and hand surface lead in veterinary workers using lead shielding during diagnostic radiography. Department of Medicine Faculty Research Day, May 5, 2023
- **Bacsu J, O'Connell ME, Cammer A, Ahmadi S, Azizi M, Grewal KS, Green S, Berger C, Gowda-Sookochoff R, Knight S, Spiteri RJ.** (2023). Understanding Twitter discourse on dementia during Alzheimer's Awareness Month in Canada. Canadian Consortium on Neurodegeneration in Aging (CCNA) Partners Forum and Science Days 2022: Abstracts. Canadian Geriatrics Journal, 26(1), pp. 221. DOI: <https://doi.org/10.5770/cgj.26.659>
- **Bacsu J, O'Connell ME, Cammer A, Ahmadi S, Berger C, Azizi M, Gowda-Sookochoff R, Grewal KS, Green S, Knight S, Spiteri RJ.** (2023). Understanding the evolving COVID-19 impact on people with dementia from the perspective of family and friends. Canadian Consortium on Neurodegeneration in Aging (CCNA) Partners Forum and Science Days 2022: Abstracts. Canadian Geriatrics Journal, 26(1), pp. 221. DOI: <https://doi.org/10.5770/cgj.26.659>
- **Bethell J, Andrew MK, Hothi S, Mick P, Morgan D, O'Connell ME, Phillips NA, Stewart S, Walker JD, Wittich W, McGilton KS.** (Accepted) The relationships between neuroticism, social connection and cognition. International Psychogeriatric Association, "New Perspectives in a Changing World: Social Connectedness, Ageing and Mental Health". Lisbon, Portugal, June-July 2023.
- **O'Connell ME.** (March 2023). Issues in cognitive assessment with diverse groups: Focus on Indigenous Peoples. Invited Presentation. Vascular Training Program (VAST) Seminar Series, 2023, March 31, 2023.
- **O'Connell ME.** (June 2023). Issues in remote neuropsychological assessment for clinical practice. Section Featured Speaker Address, Professional and training issues. Canadian Psychological Association (CPA) Conference 2023, June 24, 2023.
- **O'Connell ME, Camicioli R, Cammer A, Chertkow H, Desmarais P, Fisk JD, Freedman M, Friedman N, Geddes M, Ismail Z, Kirk A, Lee L, Morgan DC, & Pettersen J.** (accepted, March 2023). A virtual interdisciplinary diagnostic memory clinic: Rural patient and caregiver satisfaction. Canadian Neurological Sciences Federation's Congress, 2023, Banff, June 6-9, 2023.
- **Massie M.** The story of Cecil George Harris' historic will is also a chilling lesson in farm safety. CBC radio The Afternoon Edition with Garth Materie, June 8 2023.
- **Lang, A.E., Campbell, L.* & Fadare, D*.** (May 2023). Preliminary analysis of the association between time since pain onset and shoulder kinematics in people with rotator cuff disease, Department of Medicine Research Day, University of Saskatchewan, Saskatoon, SK.
- **Waslen, A.* & Lang, A.E.** (May 2023). Do sex and age influence scapular and thoracohumeral kinematics during a functional task protocol?, Life and Health Sciences Research Expo, College of Medicine, University of Saskatchewan, Saskatoon, SK.
- **Akinluyi, O.V.*, Lordall, J.*, & Lang, A.E.** (May 2023). Application of an in-field motion capture protocol for evaluating upper body movement., Life and Health Sciences Research Expo, College of Medicine, University of Saskatchewan, Saskatoon, SK.
- **Fadare, D.*, Campbell, L.*, & Lang, A.E.** (May 2023). Is time since pain onset related to shoulder kinematic changes in people with rotator cuff disease: a preliminary analysis., Life and Health Sciences Research Expo, College of Medicine, University of Saskatchewan, Saskatoon, SK

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Saskatoon SK

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