

April 21, 2022

Student Research Day Program





The land on which we are gathering in Treaty Six Territory is the traditional gathering place for many Indigenous people. We honour and respect the history, languages, ceremonies and culture of the First Nations, Métis and Inuit who call this territory home.

The First People's connection to the land teaches us about our inherent responsibility to protect and respect Mother Earth. With this acknowledgement, we honour the ancestors and children who have been buried here, missing and murdered Indigenous women and men, and the process of ongoing collective healing for all human beings. We are reminded that we are all treaty people and of the responsibility we have to one another.

Welcome Notes



**Dr. Annette Trimbee, President and Vice-Chancellor,
MacEwan University**

Congratulations for engaging in academic research and scholarship as part of your studies at MacEwan University!

You have tapped into subjects and issues that matter to you and pique your curiosity and creativity. You have connected with faculty as mentors and colleagues and learned many skills that will serve you well wherever your career takes you. You have learned how to discern information critically, ask the right questions, design and manage experiments, make sense of and communicate your findings and perhaps even to fail. Most importantly, you have learned how new knowledge is created as you discover your own potential and passions.

I have fond memories of my own undergraduate research experience. I had my own crop of corn growing on one of the

campus rooftops. I met a cohort of other researchers and learned firsthand how passionate my professors were about their scholarship. At the same time, I struggled to get a chromosome staining procedure to work and learned that failure is a part of research too. Since then, I have learned much more about the 'art' of research and how important it is for diverse teams to collaborate. There is something so special about publishing, performing, or producing your first academic scholarly work.

I know the strength of MacEwan's learning environment is in the experience and passion of our faculty. Through their innovation, and in connecting research to community, they push boundaries, create necessary solutions for community, and stay contemporary in their teaching. I'd like to thank all the faculty who have provided their expertise and guidance to a new generation of researchers. I hope students and faculty alike have been inspired by this experience.

Student Research Day is an opportunity to showcase your work and take on a new challenge: sharing your passions with a larger community. I hope you enjoy the day and take away new inspirations for the next challenge.





Dr. Craig Monk, Provost and Vice-President, Academic

I would like to congratulate the undergraduate researchers on their participation in this year’s Student Research Day. You have taken on the challenge of academic scholarship and, in doing so, have worked to build new skills and to seek out new knowledge. In tackling this challenge, you have learned from experienced MacEwan faculty, researchers and mentors who are experts in their field. I commend you all. The way students embrace this opportunity is nothing short of inspiring.

More widely, this event shines a light on what MacEwan University does best—engaged teaching and learning, undergraduate scholarship, and the dissemination of knowledge in search of truth in aid of the public good. I believe strongly that students are transformed by scholarship. When undergraduate students engage

in research, they acquire durable skills such as communication, presentation and critical thinking competencies, and these are the skills that can help them stand out when they enter the workforce.

Student-engaged research is a win for everyone. Students benefit, faculty benefit and the community benefits from the knowledge acquired and from graduates who are ready to take on new challenges.



Dr. Craig Kuziemyk, Associate Vice-President, Research and Interim Dean, School of Business

Welcome to Student Research Day 2022. I want to thank you for joining us to celebrate the scholarly achievements of our MacEwan University students. This year is particularly exciting as it is the first time in three years that we are able to hold it in person.

In Fall 2021 MacEwan University released its new Strategic Vision entitled “Teaching Greatness 2030.” MacEwan has always embraced a broad view of scholarship, and Student Research Day will showcase exceptional student scholarship ranging from traditional research to community engaged scholarship to creative outputs. While Student Research Day is the capstone event in our annual celebration of MacEwan scholarship, I do recognize that some types of student scholarship, particularly creative activities such as performances or artistic displays, cannot be easily showcased in a one-day event. I encourage people to look at all

that MacEwan has to offer by exploring other types of student research and scholarly work that may not have made it into today’s event.

I am always proud and inspired by the commitment and engagement that our students put into their research and scholarly work. Today, you will see examples of scholarship that make a range of impacts from raising awareness about key societal issues to research that works with community partners to help collaboratively solve problems in our local communities. Across all our faculties and schools, the scholarship our students do help to ensure societal growth and a prosperous future for everyone.





Oral Presentation Schedule

ROOM NUMBER:	9-201	9-202	9-211	9-215	9-216	9-217	9-218
8:30-8:45 a.m.	Welcome and Opening Remarks Dr. Craig Kuziemsky, Associate Vice-President, Research & Interim Dean, School of Business Cynthia Jim, Indigenous Knowledge Keeper Dr. Annette Trimbee, President & Vice-Chancellor, MacEwan University Dr. Craig Monk, Provost & Vice-President, Academic						
	Psychology Moderator: Dr. Sean Rogers	Sociology Moderator: Dr. Shelley Boulianne	Child and Youth Care & Social Work Moderator: Dr. Ozlem Cankaya	Anthropology, Economics and Political Science Moderator: Dr. Katie Biittner	Physical Sciences Moderator: Dr. Logan Sibley	Biological Sciences Moderator: Dr. David McFadyen & Kathy Davies	English Moderator: Dr. Lana Krys & Dr. Paul Lumsden
Session 1 9-10:30 a.m	- Caleb Chomay 15 - Sam Smith-Ackerl 15 - Rosalia Scavuzzo 15 - Sydney Parkinson 15 - Mattise Gauthier 15	- Christine Zolondek 30 - Nicole Houle 30	- Anita Brown 15 - Gabriela Ferreira Arnaut Bernabe 20 - Beverly Michel Baluyot & Elaine Tran 20 - Lisa Muyambo & Maryanne Muyambo 20	- Ruan Bouwer 30 - Dominic Ellis-Kelly 20 - Madi Badger 20 - Amanda Robinson 15	- Ty Joinson 20 - Ben Michalchuk 20 - Cedrick Ramos 20 - Helen Tiet 20	- Benjamin Bekkema & Troy Neilson 20 - Dana Dunbar 20 - Areal Huang 20 - McKayla Kirkpatrick 20	- Y.A. 30 - Samantha Daigle 30
10:30-10:45 a.m.	Break						
	Psychology Moderator: Dr. Sean Rogers	Sociology Moderator: Dr. Shelley Boulianne	Humanities Moderator: Dr. Aidan Forth		Physical Sciences Moderator: Dr. Janice Kenney	Biological Sciences Moderator: Dr. David McFadyen & Kathy Davies	English Moderator: Dr. Josh Toth & Dr. Mark Smith
Session 2 10:45 a.m.-12 p.m.	- Mackenzie Thomas 15 - Ronak Rai 15 - Jasmine Parr 15 - Samantha Sydor 15 - Janine Heber 15	- Alexandra Gagnon 15 - Patricia Anderson 15 - Alexandra Gagnon 15 - Shelby Hays 15	- Kyle Gibson 15 - Lauren Rundell 30		- Gaganpreet Gill 20 - Erynn Hunka 20 - Kaylee Onucki 20	- Benjamin Bekkema 20 - Cianna Klebak 20 - Lina Lim 20	- Liam McIntyre 30 - Hannah Riegger 30



ROOM NUMBER:	9-201	9-202	9-211	9-215	9-216	9-217	9-218
11 a.m.-1 p.m.	Lunch is available for student presenters. Pick up is between 11 a.m. and 1 p.m. in Room 9-213						
12 p.m.-1:30 p.m.	Poster/Project/Creative Installation Viewing #1						
	Psychology Moderator: Dr. Aimee Skye	Sociology Moderator: Dr. Michael Gulayets		Arts & Cultural Management & Business Moderator: Annetta Latham	Physical Sciences Moderator: Dr. Robin Woywitka	Biological Sciences Moderator: Dr. David McFadyen & Kathy Davies	English Moderator: Dr. Dave Buchanan, Dr. Jack Robinson & Dr. Pam Farvolden
Session 3 1:30-3 p.m.	- Jessica Touznik 15 - Nathan Kyler 15 - Hadla Omar 15 - Chris Leathem 15 - Layton Byam 15	- Dallas Bilyk 15 - Alyssa Dechant 15 - Shaelyn Durocher 15 - Harrison Haug 15 - Madelaine Jacknisky 15		- Bailea Jackson 20 - Patrick Jean 20	- Ben Michalchuk 20 - Radhika Saini 20 - Ryan Duchnowski 20	- Sara McLean 20 - Celina Vipond 20 - Taylar Whidden 20	- Layla Rosser 30 - Brianna Sorensen 30
3-3:15 p.m.	Break						
	Psychology Moderator: Dr. Sean Rogers	Sociology Moderator: Dr. Michael Gulayets		Communication Moderator: Dr. Lucille Mazo	Mathematics & Statistics, Computer Science & Engineering Moderator: Dr. John O'Connor		
Session 4 3:15-4:30 p.m.	- Hayley Calder 15 - Celina Hulm 15 - Darcy French 15 - Sara Tanasichuk 15	- Rachel Koski 15 - Ayla Law 15 - Lauren Shaw 15 - Maya Stephens 15 - Randi Sempala 15		- Karly Broadstock 20 - Elyse Dzenick, Emma Dietze & Sara Halcro 15 - Isaac Lamoureux & Cole Koch 20	- Iain Smith 15 - Courtney McNeilly 20 - Darren Paetz & Matt Kantor 20 - Orion Sehn 20		
4:30-5:30 p.m.	Poster/Project/Creative Installation Viewing #2						



Poster Presentation Schedule

12 p.m.-1:30 p.m.			Poster/Project/Creative Installation Viewing #1		
Installation Zone	Student(s)	Title	Installation Zone	Student(s)	Title
1	Sydney George	Forensic Nursing and the Healthcare System's Response to Sexual Violence	22	Kale Scatterty	The Effects of Infrasound Frequencies on Wild-Type Zebrafish Anxiety Behaviour
2	Amy Wildeman & Sheri Graff	Perceptions of clients about healthcare professionals (HCP) who have visible body art: a scoping review of the literature	23	Christina Tomaras	Effects of Context on Perceptions of Suicide Referents
3	Tori Vail	Analysing and documenting mathematics content of Canadian early learning frameworks	27	Kayla Tolentino	Experimental Type - The City by Rad Bradbury Part I
4	Caren Robinson	Indigenous Beading Knowledge in context of International Social Work Research	28	Kayla Tolentino	Unspeakable: A Game Adaptation of MacEwan's Book of the Year Design Series "How to Pronounce Knife"
5	Samantha Mullin	Instagram and Politics Systematic Review	29	Celine Trinidad & Kayla Tolentino	Elsewhen: A Visual Exploration in Experimental Layout
7	Holly Bosch	Mindfulness as a Moderating Variable of Selfishness and Materialism	30	Celine Trinidad	Experimental Type - The City by Ray Bradbury Part II
8	Levi Meldrum	The effects of video game experience and time pressure on hiding and searching behaviour	31	Isaac Amoah	Experimental layout - The Book of Sand
9	Bailey Bulmer	In Memory of Gruesome Details Across Violent Scenes	32	Brett Johnson	Safety and Security: ETS Ecosystem Map
10	Maron Demecillo	I Woof You: How Pet Pictures Influence Online Dating Selection	33	Lauren Beatty	The Pedestrian: A Visual Exploration of Tone and Imagery
11	Ismaeel El-Hakim	The Potential of Central, Non-Predictive Arrow Cues to Engage Reflexive Shifts in Spatial Attention	34	Keighly Gibson, Katryna Yasinski, & Molly Boyd	Creation of a Visual System for the Colloquium Project
12	Shelby Grahn	Put Your Money Where Your Mouth Is: Psychopathic Traits, Priming, and Costly Helping	35	Jhianne Anselmo	Album design process
13	Andréa Johnson	The Acute Effects of Cannabis Terpenes on Zebrafish Anxiety-Like Behaviour.	36	Manhar Bhui	Visual Storytelling Through Expressive Typography
14	Shannon Majeau	Motivations and perception of others in political disagreement	37	Rachel Blaak	Visual Commentary on Unseen Characters in Response to How to Pronounce Knife
15	Dezerae Martens	The Positive and Negative Perspectives of Narcissism	38	Rachel Blaak	A Typographic Interpretation of "The Pedestrian" by Ray Bradbury
16	Jacey Mitchell	Book to the Basics: Systematically Teaching Children to Read	39	Barbie Cayanan	Using objects to represent artists in album cover design
17	Melissa Nielsen	Worth the Risk: Narcissism and Risky Health Behaviour	40	Vik Chu	Ecosystem Map: A Granular Representation of the Edmonton Transit Service (ETS)



18	Tulsa Oddy	Speech and language effects on the perception of mixed emotion in children	41	Mesina Marrazzo	Defy Nail Polish - A Refreshing Take on Souvankham Thammavongsa's "How to Pronounce Knife" Collection
19	Brayden Ritter	Anxiolytic effects of acute Delta-9-Tetrahydrocannabinol (THC) administration in Zebrafish (Danio rerio)	42	Mesina Marrazzo	Up and Over - A Vision of Perseverance
20	Dacia Chiarieri-Hirsch & Mackenzie Thomas	A Post-Release Examination of High-Risk Offenders and the Barriers to Reintegration	43	Kevin Nguyen	DESN 315 Visual Narrative and Storytelling: Project 3 Stories from the future
21	Chella Mae Robles & Mackenzie Thomas	Criminogenic and Non-Criminogenic Needs of High-Risk Offenders and Reintegration Success	44	Jadyn Pierog	Visual Exploration of the Theme of Copies in Ray Bradbury's Marionettes, Inc.
			45	Madison Francoeur	Stitching with Stories: Learning to Bead Through Embodied Knowledge

4:30-5:30 p.m.			Poster/Project/Creative Installation Viewing #2		
Installation Zone	Student(s)	Title	Installation Zone	Student(s)	Title
1	Maron Demecillo & Morgan McCloy	Arts engagement during the COVID-19 pandemic	22	Clare Wiznura	Language Ideologies and Discourses Surrounding Self-Usage of Computer Mediated Communication: A Look at Gendered Differences
2	Emma Johnston	I only cry in movies when an animal dies: Exploring the relationship between human and animal centered empathy in pet owners as a function of trait narcissism	23	Shaun Magnaye	The Decoupling of Industrial Sulfur Dioxide Emissions from Gross Regional Product Per Capita in Beijing
3	Vanessa Brickwood	Sluts and Mini-Skirts: Do Cognitive Load and Processing Mode Influence Stereotypical Thinking About Sexual Consent?	27	Chrissa Barroma & Amanda Kryjak	Cloning and Purification of a glycerol-specific alditol oxidase for biosensor construction
4	Megan Riley	Perception of Dog Breeds, Dog Traits, and Implicit Associations	28	Haylee Hatton	Post-management dietary dynamics in spottail shiner (<i>Notropis hudsonius</i>) and trout-perch (<i>Percopsis omiscomaycus</i>) from 2009-2011 and 2013 in Lac la Biche, Alberta
5	Chella Mae Robles	Assessment and Recovery of Reaching Functions in Patients with Cerebellar Stroke	29	Ranen Calvert	Texture Classification of Manito Lake Stromatolites
6	Kamille Sandberg	Does Feeling Heard Improve the Experience Worldview Conflict?	30	Paige Goshko	Recreating the Paleoecology of the Rocky Mountains, AB
7	Japkaran Saroya	A Zoo-per Day Keeps The Scaries Away!: The Impact of Seeing Animals on At-Risk School-Aged Children	33	Rebecca Trites	Dunes: Portable OSL Technology and its Practical Applications in Canadian Archaeology



8	Kale Scatterty	Establishing an Effective Dose-Response Curve of β -Carboline FG-7142 on Wild-Type Zbrick ebrafish Anxiety Behaviour	34	Shaun Mainwaring	Measuring the activity of <i>Saccharomyces cerevisiae</i> in relation to home-based additives by measured net weight loss
9	Sophia Slade	Lateralization of facial emotion recognition in the human cerebellum	35	Rachel Jacques	Abstract photography in album cover design
10	Pamela Stuart	A Signature Squeak: Acoustic Features Related to Identity in American Pika Calls	37	Rachel Jacques, Lauren Beatty, Nicole Fitzpatrick, Simon Dechant, & Seraphim Rosenfeldt	To Tell the Tales of Two: A Visual Exploration of Dialogue in Literature
11	Alex Tiller	He Said, She Said, They Said: The Influence of Sex and Gender on Victim Credibility	38	Ashley Drouin	Book Design - A Collection of Short Stories by Edgar Allan Poe
12	Christina Tomaras	Does Information, Psychiatric Illness Type and/or Age Influence Undergraduates' Acceptance of MAiD?	39	Keighly Gibson	Breaking the Grid to Visually Enhance Literature
13	Jill Rogers and Madison Twa	Men are Bad, Women are Mad: The Influence of Race, Gender, & Crime Variables on Perceptions of Criminal Responsibility	40	Keighly Gibson	Exploration of Colour and Line in Album Design
14	Ryan Verbitsky	Examining the role of the cerebellum in visuospatial attention: Can cerebellar lesions lead to spatial neglect?	42	Angeline Santos	Queen of Hearts: Breaking the Grid
15	Alana Walker	Increasing Independent Self-Care in Autistic Children through Telehealth Parent Coaching	43	Lisa Cox	Ecosystem Map: A Systemic View of Edmonton's Transit System
16	Nicole Walklin	Storytelling Abilities of Children with Cochlear Implants (CI)	44	Lisa Cox	Book Design: "Fairy Tales by H.C. Andersen, A Collection of Stories"
17	Shannon Walters	Communicating Consent: Testing Taxonomy Based Training Methods	45	Summer Smith	Applying Concrete Poetry Techniques to Ray Bradbury's "Night Meeting"
18	Madison Karpiak	How respondent intoxication influences university staff's perceptions of risk and sanction recommendations in an on-campus sexual assault scenario	46	Grace Zimmer	Monday or Tuesday Book Design
19	Allyson Brinston	Conversations about Indigenous Language Revitalization: Urban Edmonton Strategies and Methods	47	Thia Ma	The Application of 1920s Bauhaus Aesthetic to Contemporary Album Design
20	Hailey Kennedy	Art and Archaeology: Understanding Drawing within Archaeological Contexts	48	Thia Ma	Exploration of Literary Parallelism in Product Design
21	Alex Wickenheiser	Anth 415 Theory Poster			