

# THE MORWICK G360 GROUNDWATER RESEARCH INSTITUTE

ANNUAL REPORT 2023



UNIVERSITY  
of GUELPH

IMPROVE LIFE.





## With Thanks...

Dear Ted,

Your long-standing friendship with the University of Guelph is extraordinary.

Students have greatly benefited from your significant contributions through endowed scholarships across a wide range of disciplines for many years.

Additionally, I applaud your thoughtful and persistent support of our vital research – you are a leading champion for the preservation and conservation of groundwater resources and environmental sustainability.

It was a pleasure to see you at the Morwick G360 Family & Friends celebration. The occasion was the perfect opportunity to formally recognize your game-changing contributions and visionary advocacy for groundwater research. Thank you for graciously accepting the accolades!

I am delighted to introduce this report, which not only highlights the exceptional impact you have made but also serves as a testament to our profound gratitude for your unwavering support.

With heartfelt appreciation,

**Charlotte A. B. Yates**  
President and Vice-Chancellor



# Thank You.

Dear Ted,

My father was a farmer who took great pride in his buildings and the equipment that supported his operations. As I look back at his life, I try to put myself in his shoes.

I feel the same pride as my father did on his farm, and I value the same reliance on the buildings and equipment that support us at Morwick G360.

As you know, I am part of a team of experts who work very hard and until now, I've been asking them to work in a building with an unfinished floor, no electricity, and no running water.

Your gift will provide us with the kind of facilities for which we can all take great pride. We will not only have a facility that better supports our work such that we can accomplish everything we aspire to, but Morwick G360 will now provide a unique platform to share our knowledge and effectively collaborate with academia, industry, and government. We are also excited to have a space to welcome the public and engage them in appreciating the role of groundwater in our community, across Canada, and around the world.

Your contribution will bring next-level excellence to our research operations and by extension, will advance our profile as an exceptional teaching environment and premium collaborative hub in groundwater protection and sustainability.

Your contributions are impacting me both professionally and personally. As a professor and research scientist, I am better equipped to mentor future leaders and investigate solutions for global sustainability. As a daughter I will continue to walk in my father's shoes while I honour your vision by celebrating, maintaining, and effectively leveraging your game-changing improvements.

Thank you.

Sincerely and with deep gratitude,

**Beth Parker**

Chair, Morwick G360 Groundwater Research  
University of Guelph

# OVERVIEW

Your generosity has inspired and supported the University of Guelph community for almost two decades. In fact, as we look forward to breaking ground for the newly appointed Morwick G360 Groundwater Research Institute, we continue to celebrate your most recent contribution of \$10M in pursuit of a sustainable world via groundwater preservation and security.

Once again, you have endorsed a cause that is central to the University of Guelph mission to improve life. Your thoughtfully designated funds for infrastructure, teaching, learning, and research are advancing our work on groundwater resource sustainability while raising our profile as an academic and research leader.

Remarkably, your profound impacts in groundwater research are celebrated against the backdrop of your long-term scholarship support of our students. This report will provide a summary of activities at the Morwick G360 Groundwater Research Institute as well as a compilation of introductions, updates, and gratitude from our large cohort of Morwick Scholars.

## THE MORWICK G360 GROUNDWATER RESEARCH INSTITUTE

On Friday, June 2, 2023, the Morwick G360 Groundwater Research Institute hosted a Family & Friends event. The gathering was an exciting opportunity to welcome back Morwick G360 alumni and celebrate their contributions to this program and their accomplishments throughout their careers. We also wanted to rally support for the full vision of our new research facility, by engaging not only our alums but also our industry and consulting partners to provide cash support to help us realize our fundraising goals.

The event detailed our vision for the future as we continue to fundraise toward our goals, currently at an estimated \$9.7M. We celebrated the upcoming 'shovel in the ground' event for the new Morwick G360 Groundwater Research Institute which will take place in October 2023. Thanks to your generosity, our existing groundwater research facility will house a state-of-the-art classroom that will double as a conference and outreach arm for our work in groundwater resource sustainability.

This gathering was an opportunity to convey our heartfelt gratitude for your remarkable \$10M contribution. Your leadership enables our groundwater research team to take another critical step forward.

### Our focus since 2021

The team at MGRC has been very busy conducting field research since your latest major gift to the U of G in June 2021.

Much work since then has also been devoted to getting the MGRC building underway via architectural and engineering drawings and tenders.

Concurrently, we have been hosting large public workshops on World Water Day at the U of G every year in March to highlight groundwater's key role in providing resilience within the freshwater cycle as a valued resource both locally and globally; and to call attention to its importance as a major research theme on campus.

We are also the lead institution for the internationally renowned University Consortium for Field-Focused Groundwater Contamination Research. We have been hosting the annual symposium every June, which includes input from more than 150 participating researchers, students, and industry partners from around the globe, and increases the number of guest lectures annually.

Your gift to U of G in support of groundwater research reinforces the importance of this vital

resource and enhances our visibility on campus. We have expanded our faculty base with two research faculty members and now offer two new groundwater-focused courses to meet the demand for training next generation water resource and environmental engineers and scientists.

The Morwick G360 Research Institute currently supports seven faculty who are actively leading Morwick G360 research grants, five of whom are tenure-track and two of whom are contractual. The faculty team includes:

**Beth Parker:** PhD, FCAE, Professor, NSERC Industrial Research Chair – Hydrogeology. Research Interests: Groundwater flow, transport, and fate using novel and conventional methods at field research sites; role of diffusion and heterogeneity with in situ remediation performance; innovation with field characterization and monitoring of instrumentation in aquifer and aquitard regimes; Director of the Morwick G360 Groundwater Research Institute and the University Consortium to protect groundwater through research and industry collaboration.

**Jana Levison:** PhD, PEng, Associate Professor Doody Family Chair for Women in Engineering. Research Interests: Agricultural impacts on groundwater quality and quantity; source water protection; impacts of climate change on hydrological systems; groundwater flow and contaminant transport in fractured geologic media; appropriate potable water technologies for marginalized communities; fostering engineering and technological input into public discourse.

**Kari Dunfield:** PhD, School of Environmental Sciences, Canada Research Chair in Environmental Microbiology of Agro-ecosystems, NSERC Strategic Grant Program, NSERC Discovery Grant, OMAFRA. Research Interests: Impacts of human activities on soil health and ecosystem functions; environmental microbiology; microbial ecology; soil microbiology; bioremediation.

**Emmanuelle Arnaud:** PhD, Geology. Associate Professor, Assistant Dean OAC (Graduate Programs), Natural Sciences and Engineering Research Council (NSERC). Research Interests: Impact of glaciation on groundwater vulnerability; advancement of groundwater multi-level system

technologies; land conversion impacts on soil and water dynamics in the Highway 11 corridor; agronomy and drainage system design influences on tile water quantity and quality; earth and atmospheric sciences.

**Erica Pensini:** PhD, PEng, Associate Professor in School of Engineering.

Research Interests: development of new energy-efficient water treatment technologies to enable water reuse, and restoration of polluted aquifers. Jonathan Munn: PhD, PGeo, Assistant Professor in School of Engineering. Research Interests: applying and developing various downhole sensor-based methods to measure groundwater flow variability to inform contaminant investigations and source water protection. Over a decade studying the fracture network and flow system in the local fractured dolostone aquifer in the Guelph region.

**Ferdinando Manna:** PhD, Assistant Professor in School of Engineering. Research Interests: analysis and quantification of hydrological processes occurring across the critical zone, from the atmosphere to the water table with a focus on groundwater recharge.

The research team at Morwick G360 also includes approximately 20 full-time and 5 part-time staff. Among the seven principal investigators, over 46 students are advised (some are co-advised), including five undergraduate, three co-op, and 38 graduate students, in addition to the nine post-doctoral fellows. The number of students and highly qualified personnel (HQP) involved will, of course, fluctuate as senior students graduate and new students begin.

It is notable that your major gift will bring exponential growth to our program. We anticipate being more efficient at training students, publishing papers, as well as delivering on mobilization, and technology transfers such that our work will bring more output per effort and broader results at every level.

There is no question that the quality of the facilities in which we operate has a high impact on our public and professional profile and by extension, our team morale and efficiency. This extends to attracting more students and more experts, which perpetuates a next-level evolution that was

prompted by your leadership support – people want to work in a place where they are supported by the latest and greatest tools, where they are surrounded by the best and the brightest, and where cutting-edge research is possible. These are the impacts we have already witnessed since your extraordinary contribution in 2021. We also appreciate your participation in the June 2nd event to mobilize additional funding that was energized by your leadership contribution. Thank you.

### **State-of-the-art Infrastructure**

Your gift will increase capacity, expand high-level research and teaching, further advance the U of G research facility into a professional and academic destination, and secure the U of G profile as a leader in vital groundwater resource research.

Your contribution is being uniquely applied to Morwick G360 as an innovative technology transfer of our existing equipment. For example, within the classroom/conference room, we will provide access and displays to cohorts as well as the public – our planned core library will be a visual piece, where people can see the subsurface, which is otherwise difficult to conceptualize. Showcasing this display on campus will deliver our message clearly and tangibly with hands-on demonstrations. You are helping us mobilize our research into practice. In addition, one side of the new classroom opens to a 75 m deep bedrock borehole where students and guests can participate in hands-on learning with the various tools and techniques that we, or others develop to study aquifers. The facility is also close to our existing nine boreholes where students and professionals can conduct field experiments or test new equipment at a very well characterized site.

Furthermore, the new addition to our facility will give us an excellent focal point to further instrument the aquifers that underly the City of Guelph. Guelph is a well-monitored community, highlighting the City's leadership as a municipality and community in sustainable groundwater resource management – your support is further advancing these efforts.

As you know, the Morwick G360 team has boreholes as far north as the Northwest Territories and we have been invited to conduct groundwater field work across six of the continents – our hope is to add Antarctica to our list of research invites soon. The new Morwick Groundwater Research Centre (MGRC) will bring efficiency in fabrication,

staging, and shipping equipment to all our field sites around the globe. We are increasingly being asked to disseminate research and collaborate with industry, government, and academia – by enhancing our facility's ability to provide advanced, hands-on education and training, your funds are also enhancing our ability to collaborate as efficiently as possible with the least amount of risk to our equipment.

### **Student Impact**

Your visionary support of groundwater research clearly increases the Morwick G360 capacity for research, experiential development, and important course offerings. This attracts more students to the University of Guelph, while it supports a highly advanced and collaborative program at both the undergraduate and graduate levels.

With better data, we can make scientifically informed decisions and we can reach improved or optimal or more sustainable solutions. We need trained hydrogeologists to do the work – Morwick G360 is in the business of training highly qualified personnel (HQP) in the field of groundwater resources and its role within the freshwater cycle. There are currently more than 2,000 job postings worldwide for trained hydrogeologists and with your support, we are now in a far better position to take on this teaching responsibility.

Our graduate students are highly sought after specialists who bring vital expertise to an urgent challenge that is regional, national, and global. Our graduate students typically enter consulting, academia, or government sectors or stay with Morwick G360. For example, using data from 60 of Dr. Parker's graduated students, approximately 53% became consultants who bring the Morwick G360 understanding of our precious groundwater resources to business, industry, and government; 19% decided to stay with Morwick G360 as research scientists; 10% became academics; 10% entered government and policy positions; and 8% were hired into related industries. It is remarkable to see our graduates stay in the profession and we enjoy high levels of engagement with many of our students, even long after graduation.

Morwick G360 also trains many co-op undergraduate students, with more than 40 co-op students to date, and over 34 visiting international students. Just as our field work is regional, national,

and global, our students come from around the world. We have been active in the International Association for the Exchange of Students for Technical Experience (IAESTE) program every year since 2006. Your support will serve to further our robust international student cohorts, to the benefit of the entire campus.

### **Community Impact**

a significant impact born of your gift to the Morwick G360 Institute is the greatly increased awareness that we can exert on the public as well as academic, governmental, and professional communities.

For example, it is hard to speak of the vital importance of groundwater resource management and sustainability without recalling the Walkerton tragedy that occurred 23 years ago. Bruce Davidson, co-founder of Concerned Walkerton Citizens, and a guest speaker at our June 2nd celebration, painted a visceral picture of the surprise, fear, despair, and suffering that awaits a community with an unreliable source of freshwater for drinking.

*“Morwick G360 is our chance to do things right, our chance to protect aquifer and groundwater, to bring the awareness and consequence that is necessary to avoid another terrible crisis.”*

**Bruce Davidson, co-founder, Concerned Walkerton Citizens**

Morwick G360 research and teaching related to groundwater is about protecting the safety and sustainability of our water for every community. Your contribution greatly elevates our ability to succeed.

Beyond the private citizens of each demographic, Morwick G360 maintains a strong community of industry professionals, policy making municipal leaders, and distinguished academics whose collaborations bring innovation, meaningful data, and empirically based solutions to one of our most precious – and at-risk – resources.

Your participation in our June 2nd event aimed at mobilizing additional funding was emblematic

of your influence – your remarkable contribution clearly energized our philanthropic community, and your participation was greatly appreciated as it reminded attendees of the positive impacts we can make toward the quality and preservation of groundwater resources.

Thank you. Groundwater represents 99% of the available freshwater that we rely upon for life. A full 50% of our global population relies directly on groundwater and the remainder relies on surface water sustained throughout the seasons by groundwater discharge. In a similar fashion, 70% of irrigation water comes from groundwater for global food production. Groundwater abstraction is depleting aquifer storage and causing 20% of the measured changes in sea level in an unsustainable manner. Changes in climate are putting groundwater at greater risk even as groundwater sustains us through high temperatures and dry periods. As our global population continues to increase, depletion of groundwater and industrial contamination of groundwater are two significant risks at the forefront of our challenges that must be addressed.

These are facts that are not lost upon you. As you bring action and support to the groundwater issues that face us today, and into the future, we offer you our gratitude, our deep respect, and our steady commitment to finding solutions.

**Thank you.**

# THE MORWICK SCHOLARS

Over many years, your scholarships have provided reward, validation, motivation, and funding to a legion of cohorts across multiple disciplines – championing students in the arts, creative writing, aquatic biology, water resources engineering, and most recently, summer research assistantships in water resources and climate change research. Your good name is indelibly linked to the aspirations and achievements of a large, diverse, and grateful community.

This summary includes heartfelt gratitude from many new and continuing Morwick Scholars and demonstrates the massive impact of your remarkable philanthropy.



# College of Arts

Dear Mr. Morwick:

Your contributions to scholarships in the College of Arts (CoA) speak to your generosity and vision while they bring support and opportunity to the best and the brightest among us. We appreciate that you are a benefactor of multiple disciplines across the University of Guelph, and we are grateful for your robust inclusion of our CoA students.

Your own multi-faceted and accomplished history is mirrored in your philanthropic passion for all areas of higher education – while your scholarships provide an immediate impact to our individual students, they also provide a lasting impact via these cohorts' post-graduation careers. Not only will our students contribute their unique talents and skills to the future, but they will do so with the indelible impact of your goodwill and firsthand knowledge of the power of philanthropy.

Thank you for your long friendship and meaningful contributions.

With gratitude and respect,

**Samantha Brennan**  
Dean, College of Arts



*2023 Morwick Scholars in COA at a luncheon with Ted Morwick, fourth from right.*

# The Edward Y. Morwick Scholarship in Creative Writing

The \$9,000 (payable over 6 semesters) Edward Y. Morwick Graduate Scholarship in Creative Writing is typically awarded to two entering graduate students who are registered full-time in the Creative Writing Program. This award is meant to encourage and reward students who have shown developing skill and dedication to the craft of Creative Writing. The recipients must exhibit excellence in Creative Writing as evidenced by the portfolio submitted to the Creative Writing Admissions Committee.

## **Year Established:**

2012

## **Student Scholarship Recipients to date:**

13 students

## **Amount Awarded to Date:**

Total \$ awarded to date

## **2023 Student Recipients:**

Sabrina Pinksen; Fatima Amarshi; Hannah Foulger; Jessica Poon



# Sabrina Pinksen

MFA, Creative Writing,  
1<sup>st</sup> year

I was born in Wild Cove, Newfoundland & Labrador and I call St. John's, Newfoundland my home.

I spend my time balancing writing and painting practice. My art focuses on figurative exploration of my outport community in Newfoundland. I also work on a committee focused on heritage restoration and recreation within Wild Cove, White Bay, NL.

Dear Mr. Morwick:

I am honoured to have been selected as an Edward Y. Morwick Graduate Scholar and I am deeply appreciative of your support. I am a student from one of the smallest communities in the country and being given this opportunity to focus on my artistic practice is among the biggest honours I have known.

My creative work focuses on exploring contemporary outport lives in Newfoundland. My MFA thesis will be a contemporary novel based on my community and the impacts of economic outmigration. This award helps cement the importance of my work and my place in this program, while giving me the financial support that allows me to focus on my writing. You have my biggest and most deeply felt thanks.

Sincerely,

Sabrina Pinksen

## Future Aspirations

*I would like to publish a contemporary literary novel based on my community.* I aspire to continue my literary work that explores communities in Newfoundland & Labrador, while maintaining a visual art practice that operates at the same thematic intersections.



# Fatima Amarshi

MFA, 2<sup>nd</sup> year

Hello, my name is Fatima Amarshi. Born in Mwanza, Tanzania, I now call Toronto my 'home'.

I am an avid reader and have recently learned to garden. Most of my volunteer time is spent supporting the activities of my local meditation center – an entirely volunteer run and donor supported community facility. I also support local art festivities.

Dear Mr. Morwick:

I am honoured and deeply grateful to be the recipient of the Edward Y. Morwick Graduate Scholarship in Creative Writing.

I am a mature student working on my master's in fine arts, with the intent of establishing myself as a working poet and creative writing teacher. My goals involve financial struggle that has been challenging. This award ensures that my tuition is paid in full for the entirety of the program which is a pivotal factor in my ability to accept the university's offer to join the department.

Your gift is also a much-needed morale boost and confirmation that pursuing an artistic life, even at a later stage in life is possible! You have also shown me that there are art lovers like you who have faith in my aspirations.

Thank you for your support.

Fatima Amarshi

## Future Aspirations

My goal is to be a working writer, across multiple genres, including poetry, fiction, and non-fiction. *I want to actively add to Canada's creative discourse through my published work and I want to support other emerging writers as a creative writing teacher.*



# Hannah Foulger

MFA, Creative Writing,  
2<sup>nd</sup> year

Hello, my name is Hannah, and I was born in the Netherlands, in Amsterdam. Today, I call Toronto my home. My favourite extracurricular activities include creative writing and theatre.

Dear Mr. Morwick:

Thank you so much for providing this award. I honestly would not be able to afford to attend this school without it – the student loans in the province where I lived for ten years before entering this program is not adequate funding for me, particularly as I live with a disability.

Hannah Foulger

## Future Aspirations

*In the future, I intend to publish multiple novels, write scripts and perform in several plays and also write and produce a television show that stars a disabled character.*



# Jessica Poon

MFA, Creative Writing,  
2<sup>nd</sup> year

I was born in Vancouver, British Columbia but now call Toronto my home base. Apart from my studies, I enjoy reading, writing, and photography.

Dear Mr. Morwick:

Thank you – immensely – for your support! This scholarship has provided me with the space to be able to focus on my writing as I complete my master's in fine arts.

I have been told that I was born to write, and I believe that to be true. After many years of filling up notebooks while working in kitchens, I can finally pursue my dream.

Thank you for supporting the arts and for supporting me!

Sincerely,

Jessica Poon

## Future Aspirations

*In future, I would love to become an established writer and actively change what constitutes canon in Canadian literature and canon in general.*

# The Ted Morwick Scholarship

Four awards of \$8,000 (payable over four years) are available to students entering any degree program in the College of Arts. The student with the highest admission average will be selected and is conditional on maintaining an 80% average in the previous year of full-time study.

## **Year Established:**

2012

## **Student Scholarship Recipients to date:**

28 students

## **Amount Awarded to Date:**

\$224,000

## **2023 Student Recipients:**

Levi Prost; Lea Rose Cole; Emily Lindzon; Grace Nelson; Melody Pilchak; Anna Golding; Lily Seedhouse; Jillian Lek; Sofia Trillia; Amilia Owen Oliver; Rose Van Hemmen; Jillian McLaughlin; Lauren Haley



# Levi Prost

Bachelor of Arts  
and Science, 1<sup>st</sup> year

My name is Levi Prost – my birthplace and home base is in Kingston, Ontario.

My interests are varied – I am an avid chess player, an enthusiastic basketball fan, and I enjoy being outside as much as possible. In fact, one of my favourite past times is walking the trails at the breathtaking University of Guelph Arboretum.

Dear Mr. Morwick:

I am very honoured to have been selected as a recipient of the Ted Morwick Scholarship. Your financial support is deeply appreciated.

I really enjoyed my first semester at the University of Guelph, and I am very much looking forward to the rest of my studies.

I started in the Bachelor of Arts and Sciences program, but I have since acknowledged that I really enjoy math, and so I will be switching to a Bachelor of Arts and Mathematics program to pursue this new field of interest.

I would also like to take multiple philosophy courses because this is another area of study that intrigues me.

Thank you for supporting my studies and for providing me with this opportunity to explore my curiosity in a variety of disciplines.

Sincerely,

Levi Prost

## Future Aspirations

I am not completely sure what I want my future to look like, but I enjoy learning and I know that I want to succeed academically to the best of my ability. *I am driven by the fields of study that interest me, and although my vision isn't fully formed,* I think this is a good approach to academia. The top of my list of current interests includes math, philosophy, and history.



# Lea Rose Cole

Bachelor of Arts and Science,  
Psychology and Molecular  
Biology and Genetics, 1<sup>st</sup> year

I was born in Port Colborne, Ontario but my home is Guelph.

I have always felt best when I'm busy, and I tend to fill my time with activities that are focused on helping others. Throughout my adolescence, I have taken part in many charities and represented my schools at multiple competitions.

This past year, my focus has been on my education and adjusting to life in Guelph, although this did not stop me from making attempts to better my community. I have helped at monthly soup kitchens, charity walks, community garbage clean-ups, and a tutoring program for junior high school students.

I enjoy helping to make the world a better place, even in small ways. Volunteering has always been of interest to me, but I still made time for extracurriculars - I also enjoy yoga, hiking, reading, and writing. Volunteering and other activities highlight different areas of my life - physical, mental, and altruistic.

Dear Mr. Morwick:

I would like to extend my extreme gratitude for this award. My brother and sister graduated from university this year, meaning we were all attending school at the same time. This made it very difficult for my parents to help all of us, and so I needed to find a way to finance my education myself.

Additionally, we had a large fire at our family home last June and this put significant financial stress on all of us as we needed to replace almost everything. I am including this information just to illustrate how much this award has done for me! If it were not for your pure generosity, my first year would have been very different. With this scholarship I was able to attend my first year at the University of Guelph with much less stress, and for this I will be forever thankful.

Education is something I've always valued and enjoyed, and I truly believe that learning is the only way we progress and create. Your donation has made sure that I can follow my calling and continue with it for the next three years and for that I thank you!

## Future Aspirations

In the future, I would like to experience more of the world through my work. *I believe my degree can help guide me through this world while allowing me to foster my desire to help.* I hope to become a genetic counselor or research psychologist.



# Emily Lindzon

Bachelor of Arts and Science, 1<sup>st</sup> year

Hello, I am Emily Lindzon. Born and raised in Toronto, I still call Toronto my 'home'.

I enjoy drawing, painting, and photography. I also make time to volunteer for and work with children – I believe that it is important to carve out time to contribute to my community. I also indulge myself in crafts like crochet, sewing, and baking – I love crafting things for my friends and family!

Dear Mr. Morwick:

As a first year University of Guelph student, I am incredibly honoured to have received the Ted Morwick Scholarship! Your support of my academic journey fills me with overwhelming gratitude – thank you for your generous contributions!

As a person who works very hard to manage my stress, your contribution has provided me with priceless support. I just finished exams, so I now fully understand the constant, unrelenting weight of a post-secondary education and I can deeply appreciate what you've given me!

I am so grateful for your kindness – in addition to greatly reducing my financial stress, your contribution acts as both a symbol of recognition for my work up until this point, as well as a motivator to continue being worthy of such an award!

My genuine thanks,

Emily Lindzon

## Future Aspirations

In the future, I wish to live a fulfilling life and continue to make a positive impact on those around me. For me, this path constitutes a career and a family and is tied to my father's legacy. I am interested in pediatrics and am considering the pursuit of a medical degree after my undergraduate studies. I have always had a passion for helping children, babysitting as soon as I could gain a license, working at day camps, and narrating books for children learning English in developing countries. *I hope to continue on a path through pediatric medicine, to make a positive difference*



# Grace Nelson

Bachelor of Arts,  
Culture and Technology  
Studies, 1st year

Hi, I'm Grace Nelson, I was born in London, Ontario and I still call London my home. I love to bake, read, and write and have been playing piano for twelve years. For the past five years, I have volunteered as a photographer for school events. I am also an active volunteer in my home community, via the London FoodBank, Thames Valley District School Board, and programs such as the Western Engineering Outreach Program to help provide access to education for all children.

Dear Mr. Morwick:

I am incredibly honoured to be one of four recipients of the 2022 Ted Morwick Scholarships. Coming out of a pandemic, university seemed like a daunting task – not only financially, but mentally as well. I had worked incredibly hard, to achieve the best grades possible in high school, but with online classes, it was difficult to know what my work would accomplish.

Your support has helped show me the post-secondary future I could have only dreamed about – not only have you recognized my hard work and discipline, but you have also made my university journey so much less stressful. Your award has given me the room to learn and grow without thinking about debt or payments.

As a culture and technology student, I hope to combine my love of helping others with my love of technology. That could manifest as humanitarian work, creating digital tools to help lift others, or working with institutions to make a better and brighter tomorrow. With your help, you have made all of those options that much more available to me!

Thank you for your kindness, consideration, and support.

Grace Nelson

## Future Aspirations

*I hope that my future includes humanitarian work, using technology to help others.* This might be helping to create digital tools or potentially developing documentaries in partnership with universities or museums. In fact, as someone with a passion for history, it would be a dream to one day work with museums as a curator or director.



# Melody Pilchak

Bachelor of Arts and Sciences, 4<sup>th</sup> year

Hello, I'm Melody Pilchak. I was born in Richmond, B.C. and currently my home base is Surrey, B.C. In terms of extracurricular activities, I play hockey on the local Guelph U22A Women's hockey team. I also volunteer for Safe Walk on campus, where students take shifts in the evenings to walk with students, staff, and others on campus so that no one is forced to walk alone. I also volunteer with the Scientista Club as a mentor for a first-year student in my program.

Dear Mr. Morwick:

Thank you so much for providing me with this scholarship! This has had an enormous impact on my degree as I have been able to continue to play lots of hockey as well as focus on my education without stressing as much about consistently working.

I can't thank you enough for this opportunity, and I can't even begin to explain how much this scholarship has meant to me throughout my degree.

Melody Pilchak

## Future Aspirations

I am currently in the process of applying for an MSc in mathematics thesis-based programs at a couple of universities, including Simon Fraser University as well as here, at the University of Guelph. I hope to complete a master's degree as well as potentially a PhD in the future. *Learning and education is very important to me, so I hope to continue to learn as I explore different interests and career options.*



# Lily Seedhouse

Bachelor of Arts and  
Sciences, 4<sup>th</sup> year

Hi! I was born in Orillia, ON and still call Orillia my home. I greatly enjoy fitness and sports – I go to the gym regularly, I run, swim, and love to play basketball and soccer. I am an event planner for the Guelph Classics Society (an academic club) and in my free time, I like to read and craft. I love the outdoors and being in nature – I am an avid hiker and camper and have big plans regarding the outdoors!

Dear Mr. Morwick:

Thank you very much for your generous donation in support of me and other students at the University of Guelph! As a continued award recipient of one of your many scholarships in the College of Arts, I know how important these donations are to students such as me. Your generosity has been incredibly helpful in funding my undergraduate degree and assisting in cultivating success for my academic career. I want to reiterate my thanks as I could not be more grateful!

Lily Seedhouse

## Future Aspirations

I am not sure what I would like to do when I graduate. I have many different options – but for now, I want to finish my undergraduate degree and hopefully travel! In the future, I hope to find a job for which I am passionate, I hope to continue pursuing my interests and I aspire for continued happiness in whatever path I choose!



# Anna Golding

Bachelor of Fine Arts,  
Studio Art, 4<sup>th</sup> year

I am Anna Golding and Burlington is where I call 'home'. I am an active member of the community, both on campus and beyond. I am the vice president of the Fine Arts Network at the University.

I also volunteered for the Juried Art Show (JAS), which is a 55-year-old, student-run, annual art show, open to the public at Zavitz Hall.

In fall 2022, I started working off campus through an experiential learning credit. As a studio assistant for contemporary Canadian artist James Carl, I've learned what it takes to be an artist while I honed skills in new mediums such as marble stone carving. The experience has brought me a wealth of knowledge and I know that it will help rocket me into the art world with confidence!

Recently, I began working at the Interdisciplinary Design Lab on campus where I support Dr. John Phillips. This is a technologically advanced lab that works with laser cutters, 3D printers and CNC cutters – it's been extremely beneficial skills training for me.

I am very proud to share that I received two other scholarships from the College of Arts – the Marlene Pike Memorial Scholarship and the Guelph Creative Arts Association, Gordon Couling Scholarship – that are awarded to the person who holds the highest average in the Studio Art and Art History programs.

**Dear Mr. Morwick:**

**I am in my final year of studies and have received your support for four years! I am truly grateful!**

**Because of your generosity, I have funds available for art supplies, which would have otherwise gone toward tuition.**

**This fall for instance, I collaborated with the Interdisciplinary Design Lab at U of G to create a giant 3D printed anvil! Without your support, I would have had to pass**

on the opportunity to work in 3D mediums because of the expensive material required – the photo above is a picture of me standing under the suspended 3D anvil that I created for my final Sculpture IV class.

Your contributions over the last four years have allowed me to spend more time volunteering and holding executive roles in different clubs and organizations on campus. I was able to volunteer with SafeWalk (a late-night walk home service), be vice president of the Quidditch Team (a magical sport!), serve as secretary for Kaleidoscope Magazine (the main arts magazine for U of G arts students), and serve as the vice president of the Fine Arts Network, among other positions.

I know that it was your generosity that provided me with the opportunities to accept and participate in these many enriching roles and for this I am most grateful.

With sincere thanks,

Anna Golding

## Future Aspirations

I can't say exactly what my future will look like because I honestly don't know. I could end up being an extremely successful, world-renowned artist – hopefully – or I could end up working in something art-related and fulfill my creative artist role part-time.

*All I know for certain is that I will continue to pursue art, in whatever form that takes.* Short-term, I will continue working with contemporary artist, James Carl throughout the summer but after that, I don't know for sure. I want to continue to follow my instincts because they have worked for me thus far!



# Jillian Lek

College of Arts, Studio  
Art and English majors,  
3<sup>rd</sup> year

My hobbies and interests are closely aligned to my majors at U of G – I enjoy visual arts, music, reading, and travelling in my spare time.

Dear Mr. Morwick:

Thank you so much for awarding me this scholarship! It has definitely been a huge help with my tuition and my academic goals – you've given me support that will allow me to succeed. I am truly grateful for your immense generosity and support.

## Future Aspirations

My future aspirations are to become a teacher or work in a gallery or museum environment.



# Sofia Trillia

College of Arts,  
Philosophy, 3<sup>rd</sup> year

Hello, I'm Sofia Trillia and a Guelphite, born and raised. In addition to my studies at COA, I am also a member of the Society of Undergraduate Philosophers, a club that aims to bring philosophy students together and inspire philosophical thought at the University. We've organized numerous successful events this year that have helped to create a tighter community of philosophy students here at UofG – it's something we are especially proud to have accomplished, particularly after the pandemic. I also enjoy working part time at the Guelph Public Library where I am privileged to help members of our local community and put my love of books to good use. When I have spare time, I enjoy reading, writing, hiking, biking, camping, and snowboarding.

Dear Mr. Morwick:

I would like to offer my sincere gratitude for the support that your donation has afforded me. I am in my third year at the University of Guelph, and I feel immensely lucky to be able to study something for which I have such a passion. Your donation directly allows me to pursue my academic and personal goals and I am deeply honoured and appreciative to have been among the 2020 recipients.

I have always loved philosophy and I am deeply curious to understand the moral, social, and political implications of our actions. I hope to apply the skills and insights I've learned here at the University to my future career. This scholarship has gone directly toward my education, and it allows me to continue my involvement with school and community without having to worry about my finances. Thank you for supporting my journey and providing me with the opportunity to pursue a pathway that I love.

Sofia Trillia

## Future Aspirations

*After I graduate, my main aspiration is to continue writing, either creatively or academically. It is the one thing that I love to do, above all else. Although I am not yet certain what my future may look like, I am currently considering an MFA, in creative writing. I also hope to travel and to experience the world and its many different cultures. .*



# Amilia Owen Oliver

BA, English, minor in  
Creative Writing, 3<sup>rd</sup> year

Also pursuing a certificate in Business

Hello, I am Amilia and I was born in London, Ontario and am currently living in Guelph for school, although I frequently visit my hometown of St. George, Ontario.

I have done some volunteer work with the Gryphons Empowered by Movement on campus. Next year, I hope to be involved with the English Student's Society to increase my engagement on campus.

Dear Mr. Morwick:

I would like to extend my utmost gratitude to you for the continuing Morwick Scholarship. It helps affirm the work I have done, and it also decreases the pressure to work while in school and thus I am better able to maintain my marks.

Thank you!

Amilia

## Future Aspirations

While I am still undecided as to my future, I've been considering teaching after I complete my university degree. *I have a love for education, and I have also been considering a master's at some point.* During my fourth year, I hope to look at these options further, and find others to expand on my prospects.



# Rose Van Hemmen

BA Honours English,  
2<sup>nd</sup> year

Hello, my name is Rose Van Hemmen and I am a Guelphite, born and raised. When I'm not on the University of Guelph campus, I volunteer much of my time at the Guelph Public Library where I share my love of literature with my beloved community.

In my idle time, I enjoy reading classic novels, particularly the works of Jane Austen, and I review the narratives with critical essays. I also enjoy creative writing and I'm currently working on a short story collection.

Dear Mr. Ted Morwick:

I wish to express my sincere appreciation for your continued support through the Ted Morwick Scholarship. I am a second-year Honours English student with a minor in creative writing.

I have felt a connection to literature since childhood and wish to make my mark on the world as a writer.

The gratitude I feel on receiving this honour for the second year is immense – thank you for enabling the pursuit of my passion without having to worry about finances.

My love of learning only increases each year, and I cannot express how thankful I am for your encouragement. In fact, your support has motivated me to continue my studies with a graduate degree.

The gratitude I feel towards you for your exceptional generosity through this scholarship recognition is indescribable. Thank you.

Most sincerely,

Rose Van Hemmen

## Future Aspirations

In the future, I will pursue graduate studies in English or a related field to develop my skills as a professional writer: *'I hope to secure a career in writing and eventually publish personal scholarly works and creative writing pieces.'*



# Jillian McLaughlin

BA English,  
2<sup>nd</sup> year

Hello Mr. Morwick. I was born in Scarborough and when I'm not at school, it is where I call home.

One of my favourite past-times is paddling on the University of Guelph Dragon Boat Team! Not only is it a great way for me to stay active and be outdoors, but it has also given me a sense of community

Dear Mr. Morwick:

Thank you for your continued support! Writing has been a passion of mine for as long as I can remember. Receiving this scholarship inspires me to push myself in school at times when I might otherwise have lost my motivation. I am beyond grateful that you are supporting this field – one that does not always receive the funding or recognition it deserves. Thank you again – I truly appreciate what you are doing.

Best Regards,

Jillian

## Future Aspirations

In the future, I would love to become a teacher and share my love for literature with others.



# Lauren Haley

Bachelor of Arts and Science, Neuroscience and Studio Art, 2<sup>nd</sup> year

Hello, I am Lauren Haley, I was born in Brantford, Ontario and I currently call Guelph my home.

I love to read. I also enjoy studying the visual arts and old masters, painting, drawing, and volunteering with youth in my community.

Dear Mr. Morwick:

I thank you for your support in my education. Your scholarship allows me to further commit myself to my studies and interests without having to stress about tuition bills as much. I am especially grateful that you have created scholarships that support the College of Arts, as such scholarships are in short supply. Continued support of the arts allows bright and creative minds (much like yourself!) to prosper and contribute meaningful work to society.

With gratitude,

Lauren

## Future Aspirations

For my future, I want to continue in the field of neurodegenerative diseases through research. *I also aspire to establish accessible mental health care and support systems for senior citizens in my community.*



# College of Biological Science

Dear Ted:

I am writing to thank you for your longstanding contributions to our brightest and most disciplined students at the College of Biological Sciences (CBS).

This report includes a short biography of each of your many beneficiaries. It is notable that your support is entrenched in a variety of disciplines across the University of Guelph campus – and while impossible to fully capture the impact of your generosity, this summary touches upon a variety of benefits that are shared by every student, regardless of their field of study.

You have eased financial stress, thus creating greater opportunities for students to focus, network, and collaborate in their fields of interest.

These benefits are replicated in every discipline across the College of Biological Sciences, the College of Arts, and the College of Engineering and Physical Sciences and will surely contribute to attracting outstanding students to the University of Guelph campus.

Thank you for your friendship and vision.

**Maz Fallah**

Dean, College of Biological Sciences



*2023 Morwick Scholars in CBS/CEPS at a luncheon with Ted Morwick, third from left.*



# Morwick Scholarships in Aquatic Biology

Three awards of \$20,000 payable over 2 years, in support of the conservation and protection of water resources. They are awarded to students with the strongest research potential and the highest academic standing.

## **Year Established:**

2019

*\*Scholarships are awarded in even calendar years*

## **Student Scholarship Recipients to date:**

8 students

## **Amount Awarded to Date:**

\$160,000

## **2023 Student Recipients:**

Alexa Scott; Kayley Head; Elizabeth Manchester



# Alexa Scott

PhD candidate,  
1<sup>st</sup> year

Hello, I am Alexa Scott, and I was born in New Tecumseth, Ontario where I call my family's 24-acre horse farm 'home'.

Perhaps it's not surprising that I started riding horses at a very young age and still compete in dressage shows every summer. Horses are central to my life, but I have a wide range of interests and hobbies: I play saxophone and piano at local jazz clubs, I enjoy fishing, I love to read (especially murder mystery), and I even enjoy designing animation videos.

Dear Mr. Morwick:

I am deeply honoured and so incredibly grateful to have been selected as one of the recipients of the 2022 Morwick Scholarships in Aquatic Biology.

I wasn't sure if I would pursue my PhD, but your generous support gave me the courage and confidence to believe in myself and pursue this field of research, which means so much to me.

I am still in disbelief – I cannot thank you enough for the tremendous opportunity that your award has provided me, both financially and emotionally.

Once again – thank you so very much for supporting my research – it is so greatly appreciated.

Sincerely

Alexa Scott

## Future Aspirations

My aspirations include becoming a role model for students of colour who want to get into my field of research but may feel underrepresented. My realization of graduate study goals was clearly impacted by the confidence I gained via your Morwick Scholarship and my advice pays that confidence forward: *'I would like students of colour to know that no matter what barriers they face, anything is achievable if you believe in yourself.'* Thank you, Mr. Morwick, for believing in me.



# Kayley Head

MSc, Integrative Biology,  
2<sup>nd</sup> year

Hello, I'm Kayley Head, I was born in Mississauga, and I now call Guelph my home.

I am a volunteer mentor for the Girls SySTEM Mentorship Program where I provide one-on-one mentorship for female high school students interested in Science, Technology, Engineering, and/or Math. I spend at least two hours each month with these girls. I am also a member of the Toastmasters so that I can improve my leadership and public speaking skills. I recently joined the University of Guelph Outdoors Club to continue indulging my love of swimming, hiking, and camping while meeting others with like-minded interests.

Dear Mr. Morwick:

As a recipient of the Morwick Scholarship in Aquatic Biology, I would like to express my sincere gratitude for the tremendous support that you have provided me.

I have always had a passion for conserving endangered wildlife and aquatic environments. Although my undergraduate degree is in Marine and Freshwater Biology, these last eight months have taught me extensively about molecular ecology and the use of environmental DNA. With the data I have collected thus far, I have been able to deliver a 3-minute presentation at the GenFish Annual Meeting in Windsor. Moreover, I presented my work to the Society of Canadian Aquatic Sciences in Montreal! I am enjoying my time in the lab immensely; however, I am very excited to start sampling in the field during the summer of 2023.

Thank you so much for recognizing and appreciating the field of aquatic biology as it is very important to me as well.

With sincere thanks,

Kayley Head



# Elizabeth Manchester

MSc Integrative Biology,  
1<sup>st</sup> year

Hi, I am Elizabeth Manchester. Born in Arlington, Texas, I now call Hillsburgh, Ontario my home. Much of my free time is centered around community engagement. For instance, I was a campus tour guide during undergraduate studies, an Academic Community Builder during orientation week, and a Supported Learning Group leader for biochemistry.

My commitments in graduate studies include my favourite role as CoBUMP mentor, where I support senior undergrads who wish to pursue graduate studies. I sit on multiple committees and serve as general director of the department of Integrative Biology for the Graduate Student Association. I also participate in the Animal Care Committee, the Volunteer Committee, and the Graduate Student Symposium Planning Committee to help give graduate students research exposure.

I am devoted to scientific outreach for the conservation of threatened species, and have worked for years as the project director for the White Pointer Chronicles that focuses on the ecology, behaviour, and conservation of great white sharks.

I also executed an exclusive screening of 'The Last of the Right Whales' and led the handling of live invertebrates for outreach purposes at 'Guelph Bug Day'.

Beyond the University community, I volunteer as a figure skating coach for local children and support Special Olympics events in the city of Guelph.

At home, I enjoy the company and learning derived from multiple exotic pets. Being an enthusiastic 'animal person' and a 'people person', I find all my roles to be special and important.

Dear Mr. Morwick:

I sincerely thank you for your kind and generous donation. I received the Morwick Scholarship in Aquatic Biology in 2022, as I began my master's degree in Integrative Biology, and I honestly couldn't have done it without your support!

I am a dual citizen in USA and Canada. I moved to Ontario for high school and post-secondary studies because my parents were drawn to the Canadian education system. I am the first person in my family to pursue a science degree, as well as the first to pursue graduate studies, so this is quite a daunting path for me! In fact, I was experiencing 'imposter syndrome', but winning this award validated my choices, massively boosted my confidence, and motivated me to work even harder toward my goals.

The financial aspect of this award has taken a ton of stress off me and allows me to focus entirely on my research project. I am very invested in my research, and I'm so grateful that you also see the value in my work!

As a young woman in science, pursuing what is still a male-dominated field, I have experienced some setbacks which makes your support so much more resonant. Receiving the award reminds me that I am qualified and capable and that will help me achieve all my career goals.

Your scholarship will hopefully help more than just me – I hope that my research will help conservation efforts for fish native to the Great Lakes and may also be applicable to other research in human heart disease. Both sides of my family have a history of heart disease and I am grateful that I might be able to help via research in cardiac physiology.

I cannot thank you enough for your incredibly kind scholarship. You have changed my life in an exceptional, positive way – so please, never forget how much your kindness means to students! Thank you!

Elizabeth Manchester

## Future Aspirations

After completion of my MSc, I would like to achieve a PhD in a similar field of study (cardiac physiology and/or biochemistry). I see great potential for my current research to pursue a PhD at the University of Guelph.

One of my plans is to obtain a post-doctoral fellowship position in comparative physiology and eventually become a tenured professor - I'm passionate about research and teaching, and a professorship strikes me as the ideal fit!

Additionally, I have an interest in becoming a cardiologist. I intend to apply myself to human research as well in case I choose medicine. No matter where my academic career leads me, I hope to include scientific outreach in my work as I believe it is vital for scientists to communicate effectively to those in non-scientific arenas.

I aspire to continue my work with threatened and endangered species. I thoroughly enjoy working in aquatic biology and would love to find a career that will allow me to travel and work with species in marine coastal areas. *I would also like to pursue my PhD where I can use environmental DNA to monitor marine species on the IUCN Red List.*

A person wearing a white hard hat, safety glasses, and an orange safety vest is kneeling in a field of tall grass. They are holding a piece of equipment, possibly a water sampling device, and appear to be working with it. The background shows a dirt path and more grass.

# Ted Morwick Summer Research Assistantship in Aquatic Biology

The Morwick Undergraduate Summer Research Assistantship in Aquatic Biology was established in support of the conservation and protection of water resources. One award of \$6,000 is presented to an eligible student for at least a 13-week period between May 1st and August 31st.

Research must relate to one of the three themed areas of: physiology, ecology, or evolutionary biology.

## **Year Established:**

2018

## **Student Scholarship Recipients to date:**

6 students

## **Amount Awarded to Date:**

\$36,000

## **2023 Student Recipients:**

Hyun Ah Kim is the most recent research assistant, awarded in 2022.

# Morwick Summer Research Assistantships in Climate Change Research

A person wearing a blue long-sleeved shirt, a tan hat, and grey pants is wading in a shallow body of water, likely a marsh or wetland. They are holding a yellow measuring tape vertically in the water. The background shows green vegetation and a dark sky.

This award was created to provide two students with hands-on research experience through a summer research placement, focused on climate change research. Research must be related to global environmental change

## **Year Established:**

2022

## **Student Scholarship Recipients to date:**

4 students

## **Amount Awarded to Date:**

\$20,000

## **2023 Student Recipients:**

Alex Walmsley; Morgan Jaggard



# Alex Walmsley

Bachelor of Science,  
Wildlife Biology and  
Conservation

Hello, I was born in Brookville, Ontario and now call Guelph my home. I enjoy canoe tripping, bird watching, swimming, and cycling in my spare time – I get outside as much as I am able! I have volunteered for several researchers in Algonquin Park as well as the U of G free bike repair center, sporadically through my degree. I especially enjoy watching the wildlife change from season to season and always look out for the first of the neotropical songbirds that arrive each spring!

After I complete my undergraduate degree, I hope to pursue graduate studies in wildlife biology and hope to examine the effect of human-mediated effects on the populations of animals in Ontario. One day, I hope to work for a provincial or federal government conservancy program such as the Ministry of Natural Resources. I would like to make a positive difference in conservation policy.

Dear Mr. Morwick:

Thank you very much for your generous donation! Your philanthropy has helped me to pay for the equipment and transportation costs of a full season of breeding bird surveys in the greater Waterloo Region. The resulting dataset has been a crucial part of my current undergraduate thesis research course. This was an incredibly fun project, and your support is deeply appreciated – you helped make it possible to give my full attention to the research!

Alex Walmsley



# College of Engineering and Physical Sciences

Dear Mr. Morwick:

We are deeply grateful for your friendship.

Your remarkable scholarship support for the College of Engineering and Physical Sciences (CEPS) brings life-changing support to some of our best students. Your contributions provide recipients with recognition for their hard work, validation of their academic choices, motivation to achieve further excellence, and critical financial support that helps them succeed!

It is exceptional that we are simultaneously celebrating your vital contribution to the Morwick G360 Groundwater Research Institute. With scholarships and assistantships that complement the important work of sustaining our precious groundwater resources around the world, you have substantively raised the profile of our college, and the University of Guelph, as a destination for expertise, collaboration, mentorship, and research excellence.

I am pleased to introduce you to some of the many Morwick Scholars who benefit from your generosity and vision.

With sincere appreciation,

**Richard G. Zytner**

Dean, College of Engineering and Physical Sciences

# Morwick Scholarships in Water Resources Engineering



Three awards of \$20,000, payable over 2 years, in support of the conservation and protection of water resources. They are awarded to students with the strongest research potential and the highest academic standing.

## **Year Established:**

2019

*\*Scholarships are awarded in odd calendar years*

## **Student Scholarship Recipients to date:**

3 students

## **Amount Awarded to Date:**

\$60,000

## **2023 Student Recipients:**

Ceilidh Mackie; Sarah Rixon



# Ceilidh Mackie

PhD, Engineering,  
3<sup>rd</sup> year

I was born in London, Ontario but I call Guelph my home. As an avid soccer fan and experienced coach with Guelph Soccer, I enjoy sharing my knowledge and expertise with aspiring young players, helping them develop skills and a passion for the game. In addition to coaching, I am also an active Girl Guide unit leader, mentoring and guiding young girls as they develop leadership skills and explore new challenges. I have been a coach and mentor in the city and a Guide leader for over five years and I dedicate most of my free time as an active member of my community. I am always looking for new ways to give back and make a positive impact. When not on the soccer field or with the Girl Guides (or working on my research!), I can often be found hiking and camping in the great outdoors with my dogs or baking up a storm in my kitchen.

Dear Mr. Morwick:

I am truly honoured and appreciative of your support in helping me pursue my academic and career goals. Receiving this scholarship is an incredible help to me and has significantly alleviated the financial burden that comes with pursuing a higher education. It has not only allowed me to focus more on my studies, but it has also provided me with the opportunity to participate in extracurricular activities and community service, which is especially important to me.

I want to express my sincere gratitude for your generosity and support. Your kindness and willingness to invest in my future are truly appreciated. I am determined to use the education I am receiving to make a difference in the world and give back to others, just as you have given to me.

Sincerely,

Ceilidh

## Future Aspirations

I have always been passionate about teaching and sharing knowledge with others. With a deep interest in my field of study, I've set my sights on becoming a professor. *I am committed to pursuing advanced education and gaining experience in research and teaching, with the goal of inspiring and guiding future generations of students.* I hope to make a valuable contribution to the academic community and make a meaningful impact in the lives of many students.



# Sarah Rixon

PhD, Engineering

I enjoy outdoor activities and love exploring different natural areas via hiking, canoeing, and cross-country skiing. I am passionate about engaging youth and other community members in science-based activities. After moving to a new community, I have also had many opportunities to participate in science promotion. I have been able to partake in multiple conferences to share my research and learn from others working on similar initiatives. For example, I recently attended the International Association of Great Lakes Research (IAGLR) 66th Annual Conference.

Dear Mr. Morwick:

I am extremely appreciative for your support to pursue a doctoral degree. After working for a few years in the industry, I was offered a PhD position and had to decline it due to financial pressures, even though I was very eager to work on research projects. After more consideration, I decided to take the leap into academia and your contribution helped significantly as I continue to pursue research activities.

Thank you,

Sarah Rixon

## Future Aspirations

I have recently become a licensed professional engineer and hope to work within the government on water management issues in rural Ontario following the completion of this degree, while continuing to pursue research initiatives. *A doctoral degree will allow me to combine the two milieus; to work in the industry and continue research. Combining industry needs with research and innovation is essential to take action against degrading human and environmental health.*

# Morwick Summer Research Assistantships, Water Research



This award was created to provide two students with hands-on research experience through a summer research placement focused on water research.

**Year Established:**

2022

**Student Scholarship Recipients to date:**

4 students

**Amount Awarded to Date:**

\$20,000

**2023 Student Recipients:**

Lucas Bycraft; Hannah Oreskovic



# Lucas Bycraft

BSc, Biomedical Toxicology, graduated

I was born in Lucan, Ontario and still call Lucan my home. I usually spend my time playing volleyball or watching hockey with friends when I am not working in the Manderville Lab, developing sensors for toxin detection.

I would like to thank you, Mr. Morwick, for giving me the opportunity to work in a professional research lab that has led to a real and meaningful toxin lead sensor as well as a published paper! The opportunity that you gave me also enabled me to make some great connections and friendships – so thank you very much for your generosity.

Lucas Bycraft

## Future Aspirations

I hope to move on to the pharmaceutical industry, either through pharmacy school or through a career in laboratory work.



# Hannah Oreskovic

MASc, Chemistry,  
1<sup>st</sup> year

I am from Burlington, Ontario but mostly live in Guelph now. When I received this award (summer 2022), I had just completed my 4-year undergraduate degree in Nanoscience.

I just completed a term as Vice President of the University of Guelph Nanoscience Club where I was able to guide younger students and take part in community outreach by creating and presenting nanoscience demos. Currently, I am helping to organize events for students at upcoming nuclear industry conferences (that will occur during summer 2023) – I am still enjoying supporting my peers and learning with my peers!

Dear Mr. Morwick:

Thank you very much for this Assistantship and the opportunity to get my foot in the door and experience a scientific research environment. During the position I researched ozone and microwave effects on spike protein denaturation. Getting experience with the Ghandi research group at the University of Guelph turned into a full-time graduate student position in the research group, so I would say that it went very well! I feel very fortunate!

Thank you!

Hannah Oreskovic

## Future Aspirations

I am currently exploring the world of academia, getting involved with the Ontario nuclear industry and developing my research interests. I am particularly interested in developing new analytical techniques that I am presently experimenting with using elementary particles, muons.

*I would really like to emphasize my thanks to you, Mr. Morwick, for this opportunity – your generosity was the beginning of my research work!*



Morwick  
Research

“

Groundwater is 99% of available freshwater that we rely upon for life. The Morwick G360 Groundwater Research Institute will help us ensure a future of groundwater resources sustainability.

**Dr. Beth Parker, Chair, Morwick  
G360 Groundwater Research**



**The true meaning of life is to plant trees, under whose shade you do not expect to sit.**

**– NELSON HENDERSON**

UNIVERSITY  
*of* GUELPH

IMPROVE LIFE.