Peter Wall Institute for Advanced Studies
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A Message from the Interim Director

It has been my great pleasure to work with the extraordinary scholars, associates and staff that make up the PWIAS community. This year, our diverse group of Wall Scholars stepped away from their disciplinary silos to come together at the Institute around the theme of complexity, broadly understood. Apart from UBC scholars, scholars from South Africa, Spain, and the University of Toronto (Mississauga) also joined the cohort.

Everyone knows that interdisciplinary and transdisciplinary collaborations are crucial for efforts to address today’s most pressing wicked challenges. However, bringing people together in times characterized by polarization and increasing volatility, uncertainty, complexity and ambiguity (VUCA) is not easy. This year’s cohort grappled with complexity as a subject of inquiry as well as something that permeates their disciplines and individual areas of research.

Despite 2021–22 being a year of reduced programming for PWIAS, the Institute hosted a number of international visitors, including Chief Ninawa Huni Kui from the Amazon, our first Wall International Indigenous Scholar. We also welcomed scholars and speakers whose visits and PWIAS-funded research roundtables had been postponed due to COVID-19.

Much of the work this year was dedicated to planning for the program in 2022-23. The staff, myself, my academic advisory committee and the newly-formed academic leadership team at PWIAS created an exciting Catalyst Program focused on the theme of the Climate and Nature Emergency. This program expands our activities to connect and create collaborations amongst Wall Scholars, students, Emeriti/ae, artists, and staff.

I’m really proud to continue the work we’ve started with the Catalyst Program and look forward to strengthening new partnerships within UBC and beyond.
Since 1991, the Peter Wall Institute for Advanced Studies has fostered a unique academic environment that provides scholars with the space for innovative scholarship that transcends traditional disciplinary boundaries.

PWIAS encourages scholars to explore new ways of knowing and acting together to engage with some of the most profound questions and challenges facing humanity.

“Providing resources for capable and committed individuals to follow their instincts leads to the best of all discoveries, the totally surprising, the most unexpected, and the most useful ones.”

DR. MICHAEL SMITH
Nobel Laureate
Wall Distinguished Professor (1994–2000)
In 2021-22, for the first time in the program’s history, the Wall Scholars welcomed scholars from outside UBC. The cohort included members from South Africa, Spain and Toronto.

During their time at the Institute, the 2021–22 Wall Scholars presented a variety of workshops and symposia that tackled the year’s theme of “Complex Systems” in different ways. A number of interdisciplinary projects evolved during the year as well, including collaborations between Theatre and Law, Medicine and Mathematics, and more.
Mohammed Rafi Arefin
ASSISTANT PROFESSOR, GEOGRAPHY

RESEARCH FOCUS: Examining how the relationship between waste, health, and urban governance is shifting in light of developments in fields of wastewater epidemiology and microbiology of the built environment.

“The mentorship I received from scholars more senior to me on navigating UBC, setting up my research agenda, and communicating my research findings was unexpected but perhaps the most meaningful take away I got from the program.”

Jonathan Davies
PROFESSOR, BOTANY | FOREST AND CONSERVATION SCIENCES

RESEARCH FOCUS: Using projections of species extinctions and range shifts under global climate models to explore changes in the infectious disease landscape and determine whether we are approaching a tipping point in the relationship between biodiversity and disease emergence.

“I used my time and funding from PWIAS to coordinate a working group and symposium: Global Change at the Nexus of Climate, Biodiversity and Disease. In August 2022, I invited researchers from across Canada and North America to participate.”

Khanh Dao Duc
ASSISTANT PROFESSOR, MATHEMATICS

RESEARCH FOCUS: Integrating mathematical and computational approaches to the study of fundamental determinants of biological process, specifically the role played by ribosomes in gene expression across different scales to unravel optimizing principles in cellular systems.

“The opportunity to have some in depth discussion from a very wide array of disciplines and see or participate in collaborations across these fields felt quite unique”

Hanne De Jaegher
ASSOCIATE PROFESSOR, PHILOSOPHY
University of the Basque Country UPV/EHU, Spain

RESEARCH FOCUS: Bringing connected human knowing into the centre of cognitive science with the hope of building an understanding that human knowing comes with inevitable ontological, intersubjective, and ethical responsibility.

“The Stó:lō Nation visit was very special, unique, and valuable. I am extremely grateful to be able to do that. It deepened my experience of being here enormously, and encompassed unexpected experiences and insights that I will carry with me.”
**Bethany Hastie**  
**Associate Professor, Peter A. Allard School of Law**

**Research Focus:** Examining the future of collective workplace representation and investigating what a meaningful system of labour rights must account for in order to be accessible, suitable, and effective for workers in the 21st century labour landscape.

“The dedicated time and space afforded to scholars to interact, discuss research, and develop long-term collaborations and partnerships is a unique and invaluable feature of PWIAS and the Wall Scholars Program. This kind of opportunity is rare, both within and beyond UBC, and it will have a lasting impact on my academic career.”

**Dallas Hunt**  
**Assistant Professor, English Language & Literatures**

**Research Focus:** A commitment to interrogate, trouble, and ultimately dismantle non-generative modes of engagement between communities historically in dissonance to create space for ways of being that are not defined or delimited by the strictures of settler colonialism.

“The freedom and patience given by the director and others to actually work through problems was quite invigorating, and something other units at the University can learn from. The gentleness, care, and the ensuing camaraderie was new to me as a faculty member, and so I really commend the director and everyone on staff at the Institute.”

**Annette Henry**  
**Professor, Language & Literacy Education | Institute of Gender, Race, Sexuality and Social Justice**

**Research Focus:** To examine race as a dynamic, adaptive, complex system in the lives of Black women in Vancouver as part of a longitudinal oral history study using multidisciplinary approaches such as Black feminist and diasporic theories.

“The individual conversations were impactful. I came away not only impressed with my colleagues, but each time I had a one-on-one with them, I had another perspective on how people do their work and insights about possibilities.”

**Neda Maghbouleh**  
**Associate Professor, Sociology | Research Chair in Migration, Race and Identity**  
University of Toronto (Mississauga), Canada

**Research Focus:** Developing and testing new survey experiments to understand racialized perceptions of diverse communities in North America, including Arab, West Asian, and groups understudied in the U.S. and Canada.

“Feedback from my fellow Wall Scholars, especially those who have published in high-impact scientific journals and successfully engaged federal policymakers, helped me produce the most impactful publication of my career thus far in the Proceedings of the National Academy of the Sciences. I strongly believe it was the time, people, and intellectual push from PWIAS that made researching, publishing, and mobilizing this research possible for me this year.”
Rika Preiser
ASSOCIATE PROFESSOR | UNESCO CHAIR IN COMPLEXITY AND TRANSFORMATIVE AFRIкан FUTURES
Stellenbosch University, South Africa

RESEARCH FOCUS: Exploring how reflective engagements with complexity could inform more generative and just social-ecological futures shaped by theoretical frameworks and ethical practices that recognize the relational dynamics of intertwined human-environment connections.

“Working with the editor of the PRISMA video opened up some deeper understanding of how one can tell the story of interdisciplinary work in new ways that are more approachable to a wider audience....”

Anamaria Richardson
CLINICAL ASSISTANT PROFESSOR, MEDICINE | COMMUNITY-BASED PEDIATRICIAN

RESEARCH FOCUS: Exploring the impact of diagnosing in creating disease states that do not allow for health, by reviewing and comparing the natural history, evolution and creation of ASD and FASD.

“Through conversations and opportunities this year, I feel more focused in where there is work to be done - clinicians need to take responsibility for systemic racism, for structural violence, and for the inequities which continue to be sustained in certain populations. We need to do work, we need to do better.”

Tom Scholte
PROFESSOR, THEATRE & FILM

RESEARCH FOCUS: Collaborative interdisciplinary projects that bring the tools of Systems Theatre to issues arising in our society.

“The most meaningful, creative, impactful, and interdisciplinary work has been the various connections made and projects undertaken to bring the tools of Systems Theatre to questions of legal regimes; from the workings of the bc Human Rights Tribunal to the structure of Agricultural Labour Law in Ontario.”

Hannah Wittman
PROFESSOR, LAND & FOOD SYSTEMS | INSTITUTE FOR RESOURCES, ENVIRONMENT AND SUSTAINABILITY (IRES)

RESEARCH FOCUS: Visualizing, synthesizing and communicating the integrated social and ecological mechanisms underlying complex agroecosystems and agroecological transitions to inform policy and practices supporting more resilient and sustainable food systems.

“Being part of a Complex Systems cohort made me feel at ‘home’ with my interdisciplinary focus on food systems, food sovereignty, and data justice. The dedicated time and space with diverse Wall Scholars generated unexpected collaborations that have pushed my work in exciting new directions.”
Wall Scholars
Collaborations & Activities

By the Numbers

Wastewater Surveillance and the Law

Housing Justice in a Climate Emergency

Theatre Illuminates Systemic Barriers Faced by Indigenous in BC Human Rights Tribunal Process

Using Eye-Tracking Technology and Machine Learning to Explore the Possible Specific Affinity Between Youth, Autism, and Manga as a Visual Language

Mathematics, Data and the Future of Farming

PRISMA Workshop: Interacting Across Difference

Global Change at the Nexus of Climate, Biodiversity, and Disease

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Wastewater Surveillance and the Law

MOHAMMED RAFI AREFIN (GEOGRAPHY) AND BETHANY HASTIE (LAW)

“In the longer-term, our project aims to craft a wastewater “bill of rights”, which would clearly identify and delineate the rights and duties attending the uses of wastewater surveillance in Canada.”

—BETHANY HASTIE

ABOUT THE PROJECT: As an urban geographer and legal scholar, Wall Scholars Mohammed Rafi Arefin and Bethany Hastie found that the quickly developing field of wastewater surveillance poses a series of legal questions and potential challenges that have yet to be addressed. Once a field criticized for its imprecision, today the field is touted by biomedical researchers and public health officials as an essential tool for predicting and managing disease outbreaks, such as covid-19. Together, their research explores the grey areas of wastewater surveillance legality in Canada.

The Wall Scholars have identified potential sites of concern and mapped whether, and how, current laws governing topics like privacy, police powers, and employment, provide an existing framework for wastewater surveillance, and what legal gaps remain.
Housing Justice in a Climate Emergency

MOHAMMED RAFI AREFIN (CLIMATE JUSTICE) AND THE TENANT RESOURCE ADVISORY CENTRE (TRAC)

“With the time, support, and informal mentorship from other scholars in my cohort, I was able to start a new relationship with a tenant’s rights organization in Vancouver looking to support tenants navigating both the country’s most precarious rental housing market and a rapidly changing regional climate making many rental homes unlivable.”

—MOHAMMED RAFI AREFIN

ABOUT THE PROJECT: In the past year, climate change has complicated the fight for affordable and secure housing in British Columbia. The 2021 heat dome was responsible for the deaths of 595 people making it the deadliest weather event in Canadian history. Almost all of these deaths occurred at home or in a hotel and disproportionately impacted the elderly, disabled, and poor, many of them tenants living without proper ventilation or cooling.

Such inequality is occurring in a province that is already home to the eviction capital of Canada: Metro Vancouver. In the now intersecting housing and climate emergency, marginalized BC tenants exposed to extreme weather face unique vulnerabilities. Current adaptation measures could result in increased rents and “reno-victions.”

Housing advocates currently lack the data to push for equitable climate-focused changes to tenant protections. This partnership hopes to build a relationship and a foundation for the co-creation of research-driven tenant advocacy in BC’s intersecting housing and climate emergencies. The project’s goals are closely aligned with the Institute’s upcoming 2022–23 Climate and Nature Emergency theme. Initial funding for the project was secured through UAC’s Community-University Engagement Support Fund.
Theatre Illuminates Systemic Barriers Faced by Indigenous in BC Human Rights Tribunal Process

BETHANY HASTIE (LAW) AND TOM SCHOLTE (THEATRE)

“The particular format and content of the workshops, using theatre and theatre-based exercises to encounter and explore these issues, provides a unique and effective vehicle for considering necessary law reforms, as well as the ability to rehearse and discuss how possible reforms would function.”

— BETHANY HASTIE

ABOUT THE PROJECT: Using the tools of Systems Theatre, this project will highlight the importance of making space not just for stories of personal injury, but also of intergenerational trauma and resilience in cases brought forward by Indigenous applicants.

The Wall Scholars have connected with an Indigenous elementary school teacher, Dani Pigeau, who is currently engaged with the BC Human Rights Tribunal (BCHRT) regarding harmful experiences with systemic racism experienced across her entire career. She has generously agreed to have her story serve as a model of the complex issues at play for Indigenous people when engaging with the Tribunal – from every day acts of violence of micro-aggressions to outright censorship and ostracism.

Anticipated outcomes include a series of Systems Theatre plays to be developed with the BCHRT, and an original play co-written with PWIAS Interim Director Vanessa Andreotti and Dani Pigeau.
Using Eye-Tracking Technology and Machine Learning to Explore the Possible Specific Affinity Between Youth, Autism, and Manga as a Visual Language

KHANH DAO DUC (MATHEMATICS) AND ANAMARIA RICHARDSON (MEDICINE)

“The eye-tracking project with Anamaria is at the intersection of health, science and arts. I am looking forward to analyzing the results we’ll get from the cohort of patients recruited for our pilot study.”

—KHANH DAO DUC

ABOUT THE PROJECT: A collaborative study that will provide some of the first research to ascertain if there is any affinity to reading manga by youth with autism and to appreciate if there are differences in how youth read manga.

The study will use eye tracking (ET) technology and leverage its metrics, to identify if there is any specific affinity to reading manga in high functioning autistics, and if reading manga differs between neurodiverse (high functioning autism) and neurotypical youth. ET is a non-invasive technique that measures the gaze of a participant to capture a number of variables such as duration of fixation, re-fixation (go-backs), saccades, blinking, pupillary response.

The Wall Scholars are recruiting 20 youth (13–17) with high-functioning autism, and 20 youth without autism, to participate in the study by reading a manga comic displayed on a monitor connected to an eye tracking device for 10–15 minutes. Comparative statistical analysis will then allow them to assess any differences between the studied groups.

Wall Associate Dr. Cristina Conati (Computer Science) is providing access to several Tobii pro eye trackers in her lab as well as technical support for data collection.

“This study could lead to a further understanding of the cognitive impact of autism on reading and could also allow for potential objective measure for diagnostic purposes, and use of manga for communication or interventions.” —Anamaria Richardson
Mathematics, Data, and the Future of Farming

KHANH DAO DUC (MATHEMATICS) AND HANNAH WITTMAN (LAND AND FOOD SYSTEMS)

“The goal is to understand the whole complexity of what’s there,” says Khanh. “When you look at something like LiteFarm, I was drawn by the opportunity to interact with such a rich database and try to make sense out of it.”

—KHANH DAO DUC

ABOUT THE PROJECT: This collaboration brings data analysis and visualization to the web-based LiteFarm app to help sustainable and diversified farmers around the world manage and keep track of their data more easily.

LiteFarm is a free, open source, multifunctional web app that can be used by farmers to track farm management data, share data for organic certification, and engage in participatory assessment of agroecological practices and outcomes. Launched in late 2019 by a team of UBC scientists, farmers, and computer science students, the app is now being piloted independently by more than 2,000 farmers in 120 countries.

This new collaboration supported by the PWIAS brings together Wall Scholar Hannah Wittman’s work on farmer-led agroecological transitions with Khanh Dao Duc’s statistical and data visualization expertise to the large data sets collected and generated through the LiteFarm platform.

Together the Wall Scholars are recruiting, training and co-supervising students in data processing, infrastructure and analysis, while working with the LiteFarm research teams to organize and facilitate data collection.

Khanh and Hannah discussed their project in a recent episode of the Institute’s Ways of Knowing podcast, titled “Mathematics, Data, and the Future of Farming.”
PRISMA Workshop: Interacting Across Difference

HANNE DE JAEGHER (PHILOSOPHY) AND RIKA PREISER (COMPLEX SYSTEMS)

ABOUT THE WORKSHOP: On April 13 and 14, 2022, Wall Scholars Hanne De Jaegher and Rika Preiser collaborated on a workshop-experiment using the PRISMA research method to explore the experience of interacting across differences.

The PRISMA research method is an embodied, inter-subjective approach to investigate the experience of interacting, based in embodied cognitive science and movement practices. Step by step, participants discover tendencies in the experience of interacting and gain insight into their own participation in interactive situations, while contributing to the science of experiential interaction dynamics.

PARTICIPANT OUTCOMES:
- Greater awareness of experiential inter-active dynamics as they happen
- Understanding of how interactive processes affect and change us
- Analysis of emergent interactive dynamics “from within”
- Getting to know the PRISMA methodology and possibilities for applying it in their own research/practice

The scholars also created a short video-document of the experience to share with others interested in this kind of collaborative and experiential work and plan to co-write and publish a research study to present the results of the workshop at both the level of the particular, concrete, one-time process and the generalizable trends in the experience of interaction dynamics that arose.

CLICK HERE TO WATCH THE VIDEO
Wall Scholar Jonathan Davies hosted a symposium at the Institute in August 2022 where attendees were invited to discuss some of the most pressing environmental challenges of our times: climate change, biodiversity loss and disease emergence.

While the pairwise interactions between climate, biodiversity and disease are well documented, a framework that integrates all 3 and recognizes the powerful positive and negative feedbacks between them is still lacking.

The talks and discussions between the invited guest speakers illustrated recent findings on the mechanisms that connect climate change, biodiversity and disease across multiple disciplines with the hope to inspire the integration of research disciplines to better understand global change.

**TOPICS INCLUDED:**

- Lauren Buckley (uw) – Characterizing how organisms experience climate change to forecast biodiversity and disease implications
- Allan Carroll (ubc) – Predicting biotic disturbances to forested landscapes under global change
- John Drake (uga) – Patterns in emerging pathogens of livestock
- Johannah Farner (Stanford U) – Local tree cover and land use predict mosquito biodiversity
- Alyssa Gehman (Hakai Institute) – Untangling the interacting influence of disease
- John Gittleman (uga) – One Health, what is it? What should it be?
- Claire Kremen (ubc) – Managing landscapes to reduce the triple Anthropocene threat
- Jayme Lewthwaite (usc) – Species, phylogenetic, and community level responses of Canadian butterflies to a century of global change
- Sally Otto (ubc) – Evolution in our rapidly changing world
- Alaina Pfenning-Butterworth (ubc) – Making connections: climate changes, biodiversity, and infectious disease
- Patrick Stephens (osu) – Using biodiversity to predict Ebolavirus outbreaks
- Lizzie Wolkovich (ubc) – Is the global fingerprint of climate change driving species asynchrony?
Race, Gender, Sexuality, and Respectability: Deconstructing the Benefits and Barriers to Diversifying Nature Conservation

ANNETTE HENRY (LANGUAGE AND LITERACY EDUCATION, INSTITUTE FOR GENDER, RACE, SEXUALITY AND SOCIAL JUSTICE) 
AND JONATHAN DAVIES (BOTANY & FOREST AND CONSERVATION SCIENCES)

Wall Scholars Annette Henry and Jonathan Davies will be hosting Dr. Leo Douglas, Clinical Assistant Professor from New York University for a week in May 2023.

Dr. Douglas received his Ph.D., a Masters in Ecology, Evolution and Environmental Biology, and an Advanced Environmental Policy Certificate from Columbia University. He also holds a Masters of Philosophy degree in Zoology from the University of the West Indies, Jamaica. He describes his work as “Nature and Society Geography” as it lies with the complex nexus of human-environment relations within space, place, biodiversity conservation and society.

“I’m passionate about introducing colleagues and students to new ways of thinking about their scholarship,” says Annette Henry. “Over the years under the series title of “Race Literacies” I’ve invited and hosted senior Black scholars and artists doing innovative work to ubc in order to highlight the important Black scholarship around race being done in this country.”

During the week at ubc, Dr. Douglas will be working on a paper called Race, Gender Sexuality and Respectability: Deconstructing the benefits and barriers to diversifying nature conservation and will deliver lectures about his research and the field of conservation.

The Wall Scholars will host networking lunches to introduce Dr. Douglas to scholars across ubc providing a forum to engage in critical dialogue about innovative curricula and intersectional analyses. His research will have relevance to several departments, including the Faculty of Education, the Institute for Gender, Race, Sexuality and Social Justice, and the Centre for Biodiversity Research.


International Wall Scholars

In 2021 PWIAS expanded the Wall Scholars program to include scholars from outside UBC. For the first time in the program’s history we welcomed Wall Scholars from Toronto, South Africa, and Spain. The Institute also hosted Chief Ninawa Huni Kui as PWIAS’s first Wall International Indigenous Scholar.
RIKA PREISER  
(South Africa)

Rika Preiser is an Associate Professor and UNESCO Chair in Complexity and Transformative African Futures at Stellenbosch University, South Africa. Her research explores the conceptual development of complexity and how the study of the features and dynamics of complex adaptive systems inform novel ways for thinking and anticipating more equitable social-ecological futures.

“The conversations and deep work that have been done here at PWIAS and by my fellow Wall Scholars with Indigenous communities on decolonial futures, health care, biodiversity loss and climate change, food security, immigration, anti-racism, environmental justice, systems-based conflict resolution, human interaction, labour law and mathematical modelling have been a real eye opener for me. I realize that in South Africa we essentialize the challenges we need to address and often lose sight of what is being done elsewhere and that we need to forge much wider collaborations and exchanges.

South Africa often serves as fertile ground for launching case studies for partners from the “Global North” (as dictated by granting agencies). I realize that we need more exchanges where we can learn from the contextualities and lived experiences of our partners in other parts of the world if we are to re-imagine new modes of thinking, being and world-making.”
HANNE DE JAEGHER  
(Spain)

Hanne De Jaegher is Associate Professor in the Department of Philosophy at the University of the Basque Country in San Sebastián, Spain. She is a leading theorist of the enactive approach to cognition and co-director of Dialogica, an autistic-majority led organisation that fosters better understanding, increasing acceptance, and better action for autism and neurodiversity.

“Being at PWIAS, and the conversations with the Wall Scholars, has complicated my work and all these relations for me enormously, in ways that I’m only beginning to grapple with, and that I can hopefully sensitively take further. It’s asking a new beginning of me and my work, in a sense, and a not-knowing where it all will go next. At this point, the radicality of this both scares and excites me.”

NEDA MAGHBOULEH  
(Toronto)

Neda Maghbouleh is a Canada Research Chair in Migration, Race, and Identity and teaches sociology at the University of Toronto (Mississauga). She is an authority on the racialization of migrants from the MENA (Middle Eastern and North African) region.

“Although my research may seem niche when seen from certain angles, work on social categories and classificatory systems spans not only the social sciences but also the humanities, natural sciences, and even some areas of engineering. A brilliant intervention into categories and classifications that recently messed me up (in a good way) is my PWIAS colleague Dallas Hunt’s poem “Cree Dictionary” from Creeland (2020). It is a droll, tender-hearted evisceration of language as a mode of mastery, and it achieves what I attempt to do with my work, which is to expose and upend top-down labels from the bottom up.”
Chief Ninawa
Wall International
Indigenous Scholar

Chief Ninawa is a hereditary Chief of the Huni Kui Indigenous people of the Amazon and the elected president of the Huni Kui Federation of the State of Acre, Brazil.
During his time at PWIAS, Chief Ninawa worked with the 2021 Wall Scholars and other collaborators on a number of projects while raising awareness about ecocide in the Amazon rainforest and the threat of Indigenous genocide in Brazil. He met with several local Indigenous Chiefs while in BC, and he hopes to continue to deepen and expand these meaningful relationships upon his return in 2022.

Chief Ninawa also started conversations with the International Justice and Human Rights Clinic (Allard School of Law, UBC) to explore legal pathways to prosecute environmental crimes in the Amazon, and advance discussions about the recognition of ecocide as a legally punishable crime.
Meetings with faculty representatives from the Centre for Climate Justice, the Liu Institute for Global Issues and the School of Public Policy and Global Affairs took place around collaborations that can problematize false climate solutions (e.g. carbon trading, net zero).

He was keynote speaker at several events and was special guest at 19th annual Guelph Lecture—On Being on May 5, 2022 where he was interviewed by Naomi Klein, ubc Professor of Climate Justice.

Chief Ninawa returns to PWIAS as part of the Wall Catalyst Program focused on the Climate and Nature Emergency in 2022–23.
Guided Visit On
Stó:LO Unceded Lands

In April 2022, PWIAS staff, scholars and guests participated in an Indigenous-led tour of Stó:LO unceded lands, guided by Sonny McHalsie, a traditional knowledge keeper. Sonny generously shared many stories, histories, traditions and place names as he led the group up-river to Hope, through Chilliwack and the Sumas Valley, and finally to the site of the St. Mary’s residential school.

With the TRC, demands for Indigenous engagements have grown exponentially, placing a burden on Indigenous individuals and communities who are asked to be in service of settler self-actualization in relation to colonialism and its effects, which can often be (re)traumatizing for Indigenous peoples.

For our visit, PWIAS asked the Indigenous-led tour operator to receive us on their terms (i.e. not expecting to have our perceived entitlements centred in this experience). We hope the relationships built during this visit will sustain ongoing and new collaborations in the future.

The visit emerged in the context of a PWIAS collaboration with Dani Pigeau, a school teacher and Indigenous knowledge keeper from the Stó:LO Nation. Dani is working with Wall Scholars Tom Scholte and Bethany Hastie on a project that will use theatre to support the Human Rights Tribunal to hear differently the cases of Indigenous claimants, with a focus on historical, systemic and intergenerational trauma, as well as narratives of Indigenous survivance, resilience and resistance.
GUIDED VISIT ON STÓ:LO UNCEDED LANDS
International Engagement

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International Visiting Research Scholars

PWIAS provided opportunities for International scholars to come to UBC for an extended stay, fostering interdisciplinary academic exchange.

KAYLA KING (ZOOLOGY, UNIVERSITY OF OXFORD, UK)
PUBLIC LECTURE: Microbes in Animals and Plants Shape Infection Outcomes
DATE: Sept 22, 2021

CARMEN LOGIE (SOCIAL WORK, UNIVERSITY OF TORONTO)
PUBLIC LECTURE: Sexual Health and Sustainable Development Goals: Leaving No One Behind in the Global Health Agenda
DATE: Oct 5, 2021

JOHN REGANOLD (CROP AND SOIL SCIENCES, WASHINGTON STATE UNIVERSITY, USA)
PUBLIC LECTURE 1: Global Soil Degradation: Status, Driver and Solutions
DATE: Oct 22, 2021
PUBLIC LECTURE 2: Addressing Agricultural Sustainability
DATE: Dec 9, 2021

BLAIR JOHNSON (PSYCHOLOGY, UNIVERSITY OF CONNECTICUT, USA)
PUBLIC LECTURE: Habits, Ecological Factors and Interventions: Sex, Drugs and Rock’n’Roll
DATE: Dec 6, 2021

MARA GOLDMAN (GEOGRAPHY, UNIVERSITY OF BOULDER, USA)
PUBLIC LECTURE: From Narrating Nature to Decolonizing Conservation: Stories from Maasailand, East Africa
DATE: Feb 3, 2022
Wall International Exchange

PWIAS supported extended visits by UBC scholars to the Collège de France, where they had opportunities to share knowledge, participate in symposiums and public lectures.

DOMINIQUE WEIS (EARTH, OCEANS AND ATMOSPHERIC SCIENCES, UBC): VISITING PROFESSOR, COLLEGE DE FRANCE
SEPTEMBER–OCTOBER 2021

PUBLIC LECTURE: What Makes Hawaii a Unique Mantle Plume and What Does It Tell Us About the Earth’s Deep Mantle?
DATE: October 4, 2021

PUBLIC LECTURE: Magmatism in the Cascades, Subduction Zones in the Pacific Northwest: Geochemical Variations Along a North South Transect
DATE: October 5, 2021

PUBLIC LECTURE: How Clean is Our City? A Question for Bee or Salmon.
DATE: October 11, 2021

PUBLIC LECTURE: Identifying Long Distance Transport of Obsidian Across the North American Landscape in Antiquity Based on Indigenous-Led Research Initiatives
French Scholars Lecture Series

As part of a partnership with the Consulate General of France in Vancouver this lecture series brought French scholars with a proven track record of academic excellence and innovative research to UBC.

**DATE:** October 12, 2021

**JACKY GOETZ,** LEADER **GOETZ LAB FOR TUMOUR BIOMECHANICS AT INSERM, STRASBOURG, FR**

**PUBLIC LECTURE:** Forces Shape Tumour Metastasis
**DATE:** Oct 29, 2021

**ALAIN NADAÏ,** LEAD **CENTRE FOR INTERNATIONAL RESEARCH ON ENVIRONMENT AND DEVELOPMENT, PARIS, FR**

**PUBLIC LECTURE:** The Political Construction of Renewable Energy Resources
**DATE:** April 27, 2022

**CHLOÉ THIEULEUX,** RESEARCH DIRECTOR, **CNRS, UNIVERSITY OF LYON, FR**

**PUBLIC LECTURE:** Nanostructured Materials for Catalyst
**DATE:** June 8, 2022

**LLUIS QUINTANA-MURCI,** RESEARCH DIRECTOR, **CNRS, INSTITUT PASTEUR, PARIS, FR**

**PUBLIC LECTURE:** From Neanderthals to covid-19: Genetic and
International Research Roundtables provided scholars, community leaders, artists, policy makers and others with unique opportunities to explore broad themes within an interdisciplinary environment for 2–5 days.

Evolutionary Sources of Human Immune Response Variation

**DATE:** July 5, 2022

**THE SOCIAL EXPOSOME IN CHILD HEALTH AND DEVELOPMENT: ADVANCING RESEARCH AND PARTNERSHIPS TO REDUCE INEQUALITIES IN CANADA**

**LEAD:** Michael Kobor (Medicine)

**DATE:** May 2–4, 2022

**EVERYDAY ACTIVISM: CIVIL SOCIETY IN CENTRAL AND EASTERN EUROPE 30 YEARS AFTER COMMUNISM’S COLLAPSE**

**LEAD:** Lisa Sundstrom (Political Science)

**DATE:** May 12–13, 2022

**CRITICAL SUICIDE STUDIES FOR THE TIMES WE ARE LIVING IN NOW**

**LEAD:** John Oliffe and Emily Jenkins (School of Nursing)

**DATE:** June 17–18, 2022

**THE ADDICTED SELF IN THE AGE OF TECHNOLOGY: EXPLORING THE MIND’S PROPENSITY FOR HABITUAL AND COMPULSIVE INTERACTIONS**

**LEAD:** Christian Schütz (Psychiatry)

**DATE:** Aug 24–27, 2022
Symposiums and Workshops

Throughout the year, PWIAS associates and scholars hosted a number of symposiums.

ECOLOGICAL IMPACTS OF THE 2021 HEAT DOME SYMPOSIUM
**LEAD:** Diane Srivastava (Zoology)
**DATE:** May 2–6, 2022

HUMANS AND THE ENVIRONMENT WORKSHOP
**LEAD:** Brett Finlay, PWIAS Distinguished Professor (Microbiology and Immunology & Biochemistry and Molecular Biology)
**DATE:** Apr. 25–27, 2022

GLOBAL CHANGE AT THE NEXUS OF CLIMATE, BIODIVERSITY, AND DISEASE SYMPOSIUM
**LEAD:** Jonathan Davies, Wall Scholar (Botany & Forest and Conservation Sciences)
**DATE:** Aug 8, 2022
Jonathan Davies at the Global Change at the Nexus of Climate, Biodiversity, and Disease Symposium, August 8 2022.
A Look Ahead:
The Catalyst Program
The recent devastating environmental disasters in BC are indicative of the immediacy of the climate crises, the complexities of bringing about systemic change and the urgent need for coordinated efforts to address climate change, climate justice and biodiversity loss both locally and globally.

With the 2022–23 Catalyst Program PWIAS will emphasize our role as an important incubator of inter- and trans-disciplinary collaborations, events, projects and actions that engage with the urgency, scale and complexity of the climate and biodiversity crises and movements for climate justice.
Guiding Principles

• **ETHICAL COLLABORATIONS:** Transdisciplinary, intergenerational, and community relationship building grounded on trust, respect, reciprocity, consent, and accountability.

• **INTELLECTUAL DEPTH:** (self)Critical and relational rigour in moving beyond common patterns of simplistic solutions, paternalistic forms of engagements, and ethnocentric ideals of sustainability, justice, and change.

• **REPARATIVE REDISTRIBUTION:** Allocation of resources prioritizing populations most affected by the Climate and Nature Emergency (CNE) and precarity, and research areas of greatest urgency and impact, guided by principles of reparation.

• **ENGAGEMENT WITH UBC’S INDIGENOUS STRATEGIC PLAN:** Deepening understanding of settler responsibilities and supporting the aspirations of Indigenous scholars and communities.
Community Building

PWIAS will connect scholars, students, artists, disciplines, sectors and communities to activate new ways of knowing and acting together in these challenging socio-ecological times. The Institute will host events, a monthly Connections Lunch, plus other workshops and seminars throughout 2022–23.

- **WALL CATALYST SCHOLARS:** 12 UBC scholars will come together to build connections, cultivate relationships and collaborations that transcend traditional disciplinary boundaries and explore the CNE theme.

- **WALL CATALYST EMERITI COHORT:** In partnership with the UBC Emeritus College, the cohort will meet monthly to share CNE research experience, and host guest speakers as part of the Wall Emeriti Lecture Series.

- **WALL CATALYST STUDENTS FELLOWS:** Working with the Public Scholars Initiative (Graduate and Post Doctoral Studies, UBC) and UBC Climate Hub, PWIAS is expanding our community to include UBC students as well as faculty.

- **WALL ARTIST DIGITAL RESIDENCY:** 12 artists will host immersive artist sessions at PWIAS asking how art can help us address the difficult ethical and practical complexities of CNE.

- **CAMPUS SYNERGY GROUP:** Staff leaders from 10 operational units across UBC will coordinate efforts towards addressing the Climate and Nature Emergency at UBC.
New Funding for CNE Collaborations

The new Catalyst Collaboration Fund will provide $180,000—up to $10k per project—towards research collaborations, events and/or knowledge translation and mobilization related to CNE.
The Institute

Governance

The governing body of the Peter Wall Institute for Advanced Studies is the Board of Trustees, as specified under the Deed of Trust for the Establishment of the Peter Wall Endowment, 1991. For administrative purposes, the Institute falls under the portfolio of the ubc Office of the Vice President Research and Innovation.

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