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Pacific Institute *for the*  
Mathematical Sciences

PIMS MONTHLY CONNECTION | **August 2024**

## Hello from PIMS

Welcome to the August edition of the PIMS Newsletter! Below, we have curated a list of events and meetings taking place at our member universities this month.

### PIMS News:

- [Prof. Eric Woolgar is the New Interim Site Director at the University of Alberta](#)
- [Photo Highlights: 2024 PIMS Industry Day](#)

### Opportunities Across the Network:

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- Applications Now Open: [PIMS CNRS Visitor Program](#)
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- Nominate A Speaker: [Hugh C. Morris Lecture Series](#)

### Feature Events:

- August 12th - 23rd: [uOttawa Summer School](#)
- August 12th - 30th: [Microcredential Course: Physics-Informed Neural Networks \(PINNS\)](#)

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## PIMS NEWS



[Prof. Eric Woolgar is the New Interim Site Director at the University of Alberta](#)

Alberta. Professor Woolgar began his one-year term on July 1st, 2024. A professor of mathematics and statistical sciences, Dr. Woolgar's primary research is based in Mathematical Physics and Relativity Theory.

[Read Full News Article](#)

## [Photo Highlights: 2024 PIMS Industry Day](#)



On June 25th, we hosted the inaugural **PIMS Industry Day** at the University of Calgary. The event brought together students, postdocs, and industry partners for the **Math to Power Industry (M2PI)** graduation and career fair. M2PI participants gain valuable skills making them ready to work in non-academic jobs, and industry partners gained access to talent, including the insights they provided when presented with industry challenges. Thank you to the **PIMS Co-Director, International Kristine Bauer** and to our 2024 partners for a successful event day: **Awesense, IOTO International Inc., Finite Carbon, CompliLogic, and Nautical Crime Investigation Services.**

# PIMS NETWORK OPPORTUNITIES

## Open Call: 2025 PIMS Scientific Proposals

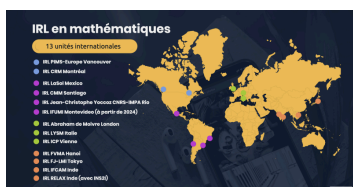
PIMS is pleased to announce an [open call for proposals](#) for mathematical science activities for 2025 (and beyond). **Any member of the PIMS scientific community may apply for financial support for initiatives or events in the mathematical sciences.** The deadline for proposal submissions is **Tuesday, October 1st, 2024**. We welcome the following types of proposals:

- Collaborative Research Groups
- PIMS Research Networks
- Mathematics for the Future - *New this year*
- Conferences and Workshops
- Summer Schools
- Distinguished Visitors

Prior recipients of PIMS awards are required to have submitted their final reports before applying for funding.



[View Submission Details](#)



## Applications Now Open: PIMS CNRS Visitor Program

Researchers and academics who are members of a CNRS lab (Unités Mixtes de Recherche) under the CNRS Mathematics banner can apply to spend a medium or long-term period abroad at one of the International Research Laboratories (IRL) affiliated with CNRS mathematics. The present call is for dates in 2025 or covering 2025-2026. A list of destination laboratories [can be found on this page](#). The deadline for applying is **October 15th, 2024**.

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director of the IRL ([director@pims.math.ca](mailto:director@pims.math.ca)), as well as to the director of your UMR.

[View Program Details](#)

## [Nominations Now Open: 2025-2026 PIMS Postdoctoral Competition](#)

PIMS invites nominations of outstanding young researchers in the mathematical sciences for postdoctoral fellowships beginning in **the academic year 2025-2026**. Candidates must be nominated by a scientist or department affiliated with PIMS. These fellowships are intended to supplement the support provided by the sponsor, and are tenable at any of the PIMS Canadian member universities: *the University of Alberta, the University of British Columbia, the University of Calgary, the University of Lethbridge, the University of Manitoba, the University of Regina, the University of Saskatchewan, Simon Fraser University, and the University of Victoria*.

Award decisions are made by the PIMS PDF Review Panel, and are based on the scientific qualifications of the candidate, their demonstrated scientific leadership, the fit between the research interests of the candidate and those of the sponsor, and the adequacy of matching funds. We strongly encourage people from historically underrepresented groups to apply for these positions. **Nominations close on December 1st, 2024.**

[View Nomination Details](#)

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## HUGH C. MORRIS LECTURE SERIES

(Nominations now being accepted)

WHAT YOU NEED TO KNOW



## Morris Lecture Series

Hugh C. Morris Lectures are high profile lectures (aimed either at the broader public or the scientific community) and take place around the PIMS Network. Suggestions for speakers in the Hugh C. Morris Lecture Series can be made at any time to the Director of PIMS. Nominations of speakers enhancing PIMS's mission to reach out to diverse audiences are especially encouraged. Suggested speakers will be evaluated based on their academic distinction, ability to deliver an engaging talk to a broad audience and diversity considerations.

[View Nomination Details](#)

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## FEATURE EVENTS



uOttawa  
SUMMER SCHOOL

## uOttawa Summer School

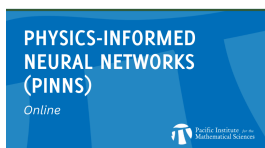
**August 12 - 23, 2024: University of Ottawa**

uOttawa Summer School brings together advanced undergraduate (3rd and 4th years) and early master students in mathematics, life sciences, physics, computer sciences and chemistry enrolled in Canadian universities. The objective is to expose students to a wide variety of scientific ideas in biology, physics, AI, mathematics and chemistry, highlighting topics that are not traditionally taught in undergraduate programs across Canada. Selected students will have the opportunity to learn new concepts, techniques, and ideas.

[See Summer School Details](#)

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COURSE:



## Informed Neural Networks (PINNS)

**August 12 - 30, 2024: Online**

The emphasis of this course is on the hands-on implementation of the Physics Informed Neural Networks (PINNs) for particular problems of science and engineering and the analysis of advantages and potential difficulties in using PINNs in practice. Examples in the course will include topics from math biology, geophysics, wave propagation and other fields.

The use of PINNs relies on the knowledge of mathematics, physics, and engineering underlying the particular problem and the understanding of how to implement PINNs successfully. The students will start with the basics of neural networks and develop the knowledge of how to build PINNs for particular applications. PINNs have been successfully used for various scientific and industrial applications, including weather/climate predictions, fluid flow in industrial machinery, renewable energy, geophysics and others.

[See Course Details](#)

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## View our calendars for more meetings and events

[Scientific Programs](#)[Education Programs](#)[Industrial Programs](#)

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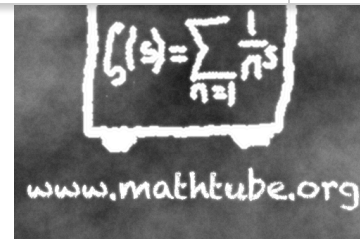
## MEDIA



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Proceedings for the [PIMS-FACTS event series](#) that took place last summer are now available for viewing!

Since 1996, PIMS has collected and maintained an archive of videos and lecture notes covering many areas of the mathematical sciences. If you missed any of the PIMS PDF Colloquium Lectures, visit [www.mathtube.org](http://www.mathtube.org) to see these and other archives.



## ABOUT PIMS

**The Pacific Institute for the Mathematical Sciences (PIMS)** was created in 1996 to promote discovery, understanding, and awareness in the mathematical sciences. PIMS has expanded from the mathematics community of Alberta and British Columbia to include Washington State, Saskatchewan, and Manitoba. Our mandate is to promote research in and applications of the mathematical sciences, to facilitate the training of highly qualified personnel, to create an equitable, diverse and inclusive community, to enrich public awareness of and education in the mathematical sciences, and to create mathematical partnerships with similar organizations in other countries in the Pacific Rim. PIMS funds Collaborative Research Groups, Post-Doctoral Fellowships, and individual events on a competitive basis.

### We Want to Hear from You

Share your feedback on this month's newsletter and tell us what stories and news you would like to hear more of.

[Feedback](#)

### Your Support Makes a Difference

PIMS education and outreach programs touch countless educators, students, and Indigenous communities. Some of our activities include summer schools, mathematics contests and meetings for educators [Learn more](#)

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We acknowledge with gratitude that PIMS central office is located on the unceded, traditional, and occupied territory of the Coast Salish peoples. This includes the territories of the xwməθkwəy̓əm (Musqueam), Skwxwú7mesh (Squamish), and Səlíl̓wətaʔ/Selilwitulh (Tsleil-Waututh) Nations.

[www.native-land.ca](http://www.native-land.ca)