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Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | June 2024

Hello from PIMS

We have had a successful month of workshops this past May, and we are looking forward to the wide array of events and meetings taking place at our member universities this June.

Opportunities Across the Network:

- Apply: [Frontiers in Biophysics](#)
- Apply: [2024 Diversity in Research Experiences Across Mathematics \(DREAMs\) Institute](#)
- Speaker Nominations: [The Hugh C. Morris Lecture Series](#)
- Register: [Fall 2024 PIMS Network-Wide Courses](#)

Feature Events:

- June 2nd - 5th: [18th Canadian Workshop on Information Theory](#)
- June 11th - 15th: [NCTS-PIMS workshop in PDE](#)
- June 17th - 21st: [Comparative Prime Number Theory Symposium](#)
- June 21st: [SFU Statistical Learning for Large Scale Data Conference](#)
- June 24th - 29th: [Addressing New Modelling and Data Challenges Revealed by The COVID-19 Pandemic](#)

Upcoming Deadlines:

- Ongoing: [Call for speaker nominations for the 2024/25 PIMS Network-Wide Colloquium Series](#)

PIMS NETWORK OPPORTUNITIES

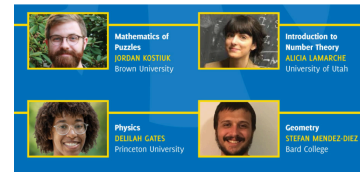


Frontiers in Biophysics (FiB) is a one-day interdisciplinary conference organized by students, which brings together a diverse set of perspectives and voices from the Pacific Northwest and beyond. FiB seeks to bridge gaps between those passionate about advancing the frontiers of biophysics and quantitative biology, welcoming students and researchers from such diverse fields as physics, mathematics, biology, chemistry, computer science, medicine, and engineering. **The submission deadline for presentation abstracts is June 12th, 2024; poster abstracts submissions are due on June 21st, 2024.**

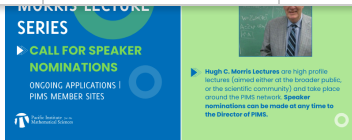
[View Conference Details](#)

[Apply: 2024 Diversity in Research Experiences Across Mathematics \(DREAMs\) Institute](#)

The Diversity in Research Experiences Across Mathematics (DREAMs) Institute is a three-week online summer enrichment program that takes place from **July 22nd to August 9th, 2024**. It is designed to provide high school students in their last year or two of studies an opportunity to explore the pursuit of mathematics at the University level. Courses offered include: *Mathematics of Puzzles* (Jordan Kostiuk, Brown University) and *Introduction to Number Theory* (Alicia Lamarche, University of Utah). There is no cost to participate in the DREAMs Institute, but we do expect participants to commit to attending for the full duration of the program. To apply for the program, please [complete the following Google Form](#).



[View Program Details](#)



C. 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 (director@pims.math.ca). Nominations of speakers enhancing PIMS's mission to reach out to diverse audiences are especially encouraged.

[View Nomination Details](#)

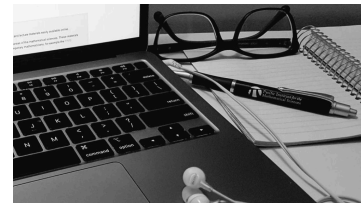
Register: Fall 2024 PIMS Network-Wide Courses

Three new PIMS Network-Wide Graduate Courses have been approved for the coming academic year. Students at Canadian PIMS member universities may apply for graduate credit via the [Western Deans Agreement](#). Graduate students in your department(s) who may be interested in one or more of the courses offered below are welcome to apply.

- Extremal Combinatorics
- Introduction to Cohomology of Arithmetic Groups
- Topics in Mathematical Biology: biological image data and shape analysis

Registration for the Fall 2024 term courses is now open.

Please take note that registration deadlines may be up to six or eight weeks in advance of the course start date. We encourage students to check the details of courses they are interested in and contact the course instructors as soon as possible.



[View Courses Details](#)

FEATURE EVENTS



KEYNOTE SPEAKERS

Tara Jaki
UCSDFrank Kottischang
U of TorontoMary Woorters
StanfordGreg Wornell
MIT

18th Canadian Workshop on Information Theory

June 2 - 5, 2024: University of British Columbia

CWIT 2024 is the 18th bi-annual Canadian Workshop on Information Theory. Similar to previous events, the event is designed to provide researchers and, in particular, graduate students working in information theory and related areas, from Canada and abroad, with opportunities to: *Learn from senior lecturers in the field who will present tutorials and keynote lectures; participate in a stimulating and inviting forum of scientists; present their own work, already published or in early stages, for feedback and potential collaboration; and deepen their connections with the community.*

[See Workshop Details](#)



NCTS-PIMS workshop in PDE

June 11 - 15, 2024: National Taiwan University

This is a joint workshop between the National Center for Theoretical Sciences (NCTS) and PIMS, aimed at promoting research collaboration and fostering exchanges between Taiwan and Canada. The subject of this workshop focuses on PDE. More specifically, the following topics will be emphasized in this workshop: *geometry and analysis of dispersive equations; regularity for solutions of certain fundamental equations; hyperbolic problems in traffic flow, kinetic theory and the material sciences; modern approaches to asymptotic analysis in the calculus of variations; universal inequalities in relevant function spaces; and elliptic and parabolic equations.*

[See Workshop Details](#)



[Comparative Prime Number Theory Symposium](#)

June 17 - 21, 2024: University of British Columbia

The Comparative Prime Number Theory symposium is one of the highlight events organized by the PIMS-funded Collaborative Research Group (CRG) [L-functions in Analytic Number Theory](#). Comparative prime number theory includes prime number races, both classical (Chebyshev's bias) and over number fields and function fields. It also broadly includes the distribution of zeros of L-functions associated with these prime counting functions. **Plenary speakers include:** Alexandre Bailleul (*Université Paris–Saclay*), Lucile Devin (*Université du Littoral Côte d'Opale*), Daniel Fiorilli (*Université Paris–Saclay*), Florent Jouve (*Université de Bordeaux*), Youness Lamzouri (*Université de Lorraine*), and Wanlin Li (*Washington University in St. Louis*).

[View Symposium Details](#)



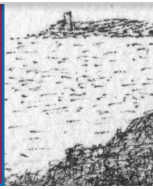
[SFU Statistical Learning for Large Scale Data Conference](#)

June 21, 2024: Simon Fraser University

The SFU Statistical Learning for Large Scale Data conference aims to promote the presentation and discussion on the latest progress in statistical learning for large-scale data. It empowers organizations and researchers to harness the vast amount of information available today, leading to better decision-making, improved efficiency, and the potential for groundbreaking discoveries across various domains.

[View Conference Details](#)

New
Modelling
and Data
Challenges
Revealed by
The COVID-19
Pandemic
at the University of
Melbourne



[Challenges Revealed by The COVID-19 Pandemic](#)

June 24 - 29, 2024: University of Melbourne

The COVID pandemic and associated interventions revealed a large number of new challenges for mathematical modeling of infectious disease. This research program will focus on an important subset of these questions:

- How can mathematical epidemiological models quantify and contrast the ethical or social outcomes of disease interventions, in addition to the clinical?
- How can we provide speed and scalability when transforming data into actionable scenarios and forecasts? In particular, how to develop leaner agent-based models and rapid uncertainty quantification, harnessing larger multi-scale epidemiological, genomic, clinical and behavioural data?

The research program will focus on these questions, with input from researchers from countries having a wide range of experiences during the COVID pandemic.

[View Workshop Details](#)

View our calendars for more meetings and events

[Scientific Events](#)

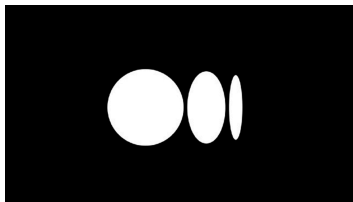
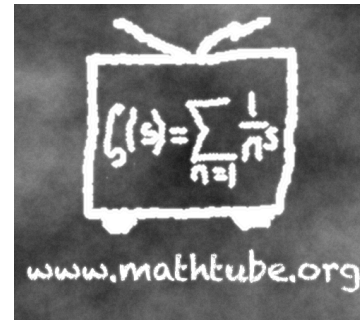
[Education Events](#)

[Industrial Events](#)

Missed a Lecture? Go to Mathtube.Org

Proceedings for the [PIMS-ACTS event series](#) that took place this 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 to see these and other archives.



Read our feature stories on [Medium](#).

PIMS is happy to share our stories and short interviews with members of the PIMS Community. We are currently featuring our 2022 PDF Cohort as they speak at the PDF Seminar Series. Do you have an interesting profile from the PIMS Community that we should highlight? [Let us know!](#)

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.

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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 Səl̓ílwətaʔ/Selilwitulh (Tsleil-Waututh) Nations.

www.native-land.ca