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Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | **March 2024**

Hello from PIMS

March is here and we are excited to continue hosting plenty of activities across all PIMS sites. Click the content table below for news and events taking place across the PIMS Network.

Opportunities Across the Network:

- March 16, 2024: [Apply for HQP participation at the NTCS-PIMS workshop in PDE](#)
- March 22 - 24, 2024: [Alberta Number Theory Days XV Workshop](#)
- March 31, 2024: [Deadline to apply for the uOttawa Summer School](#)
- April 8, 2024: [Deadline to submit abstracts for the 5th Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convection and Clouds](#)

Featured Events:

- March 6: [PIMS Emergent Research-PDF Seminar: Abbas Maarefparvar](#)
- March 7: [The Calgary Math & Philosophy Lectures: David Spivak](#)
- March 15: [PIMS/UBC Mathematical Sciences Early Career Award Colloquium: Trevor Campbell](#)
- March 20: [PIMS Emergent Research-PDF Seminar: Kesav Krishnan](#)
- March 22: [Book signing and talk: Celebrating International Women's Day with Dr. Shohini Ghose](#)
- March 27: [PIMS Emergent Research-PDF Seminar: Eugene Bilokopytov](#)
- April 4: [van Eeden Seminar: Sherri Rose](#)

K- 12 Education Opportunities:

- April 14, 2024: [Deadline to register for ELMACON 2024](#)

Media:

- Download the publication: [PIMS 2023 Year in Review](#)
- Download the calendar: [2024 PIMS Event Highlights Calendar](#)

PIMS NETWORK OPPORTUNITIES

[HQP participation: NCTS-PIMS workshop in PDE](#)

This is a joint workshop between NCTS and PIMS, aimed at promoting research collaboration and fostering exchanges between Taiwan and Canada. Graduate students and postdocs in the PIMS affiliated universities are invited to apply to participate in the workshop. Participating HQP will receive travel support from PIMS and give a short talk of 25-30 minutes to the workshop. Interested HQP should [fill the HQP Form](#) and also ask their supervisor/mentor to [fill in the Supervisor Form](#); **applications will begin review on March 16th and the applicants will be informed on March 25th.**



[View Application Details](#)



[Alberta Number Theory Days XV Workshop](#)

The Banff International Research Station will host the "Alberta Number Theory Days XV" workshop in Banff from **March 22 to 24, 2024**. The 15th Alberta Number Theory Days, proudly supported by PIMS, NTF and BIRS, allow for the exchange of knowledge. New connections are made and old associations are renewed. It is also an ideal forum for young talent in the Alberta number theory landscape to showcase their work and support them to continue in research.

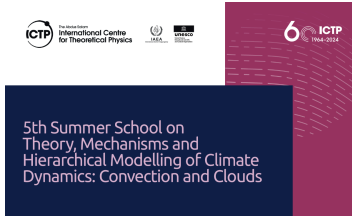
[View Workshop Details](#)

Summer School

uOttawa Summer School brings together advanced undergraduates (3rd and 4th years) and early masters students in mathematics, life sciences, physics, computer sciences and chemistry enrolled in Canadian universities. Students will be exposed to a variety of ideas that are not typically taught in undergraduate programs across Canada. The selected students will have the opportunity to learn new concepts, techniques and ideas and will get the chance to network with many uOttawa professors and graduate students. uOttawa Summer School takes place from August 12 to 23, 2024 and **applications must be submitted by March 31, 2024.**



[View Application Details](#)



Abstract Submission Deadline: 5th Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convection and Clouds

The International Centre for Theoretical Physics (ICTP), with the financial support of PIMS, will host the summer school between July 1st and 19th. The school will include lectures on convective self-aggregation in idealized experiments, precipitation extremes associated with organized convection, convection parameterization and stochastic models, machine learning for convection and clouds, and observations of convective organisation. All school participants are invited to submit an abstract for consideration as a poster or talk presentation at the conference. The **deadline to apply is on April 8, 2024**. Female scientists are encouraged to apply.

FEATURE EVENTS



[The PIMS Postdoctoral Fellow Seminar: Abbas Maarefparvar](#)

March 6, 2024: Online

9:30 AM Pacific Time

Abbas Maarefparvar got his Ph.D. in 2018 under the supervision of Professor Ali Rajaei at the Tarbiat Modares University, Tehran, Iran. Currently, he is a PIMS postdoctoral fellow under the supervision of Professor Amir Akbary at the University of Lethbridge. His main research area lies in algebraic number theory, especially the local-global class field theory, the Galois cohomology of number fields, and the arithmetic of elliptic curves.

[See Details Here](#)



[The Calgary Math & Philosophy Lectures: David Spivak](#)

March 7, 2024: Hybrid

3:30 PM Pacific Time

[How Can Math Promote Life?](#)

David Spivak received a PhD in mathematics from UC Berkeley in 2007; his thesis was in algebraic topology. David's work ranges from database integration to knowledge representation, from materials science to dynamical systems, all with a focus on compositionality and interoperability. He has written three books on applications of category theory.

[View Event Details](#)



[PIMS/UBC Mathematical Sciences Early Career Award Colloquium: Trevor Campbell](#)

March 15, 2024: Hybrid

3 PM Pacific Time

[Bayesian Inference for Big Data.](#)

Trevor Campbell is the recipient of the 2023 PIMS/UBC Mathematical Sciences Early Career Award. He is an associate professor in the Department of Statistics at the University of British Columbia. His research focuses on automated, scalable Bayesian inference algorithms, Bayesian nonparametrics, streaming data, and Bayesian theory.

[View Event Details](#)



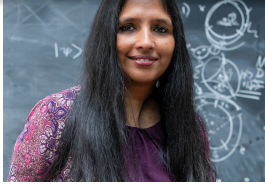
[The PIMS Postdoctoral Fellow Seminar: Kesav Krishnan](#)

March 20, 2024: Online

9:30 AM Pacific Time

Kesav Krishnan is a PIMS Postdoctoral fellow at the Department of Mathematics and Statistics, University of Victoria, mentored by Gourab Ray. He completed his PhD at the Department of Mathematics, University of Illinois at Urbana-Champaign. He is primarily interested in probability and its uses in statistical and mathematical physics and in applications of probability to other sciences.

[See Details Here](#)



[International Women's Day with Dr. Shohini Ghose](#)

March 22, 2024: Hybrid

2 PM Pacific Time

[Her Space, Her Time: How Trailblazing Women Scientists Decoded the Hidden Universe.](#)

Dr. Shohini Ghose is the author of two books (the latest published in October 2023 and the topic of the talk), a TED Senior Fellow, NSERC Chair for Women in Science & Engineering, Director, Research & Programs, Laurier Centre for Women in Science, and Chief Technology Officer of the Quantum Algorithms Institute. Engaging and accessible to scientists and non-scientists alike, Dr. Ghose's thoroughly researched book tells the inspiring stories of women physicists and astronomers from around the world who discovered fundamental rules of the universe and whose critical roles and contributions have not always been well-acknowledged.

[View Event Details](#)



[The PIMS Postdoctoral Fellow Seminar: Eugene Bilokopytov](#)

March 27, 2024: Online

9:30 AM Pacific Time

Eugene Bilokopytov is a PIMS postdoctoral fellow in mathematics at the University of Alberta where he works with Vladimir Troitsky in the area of Vector and Banach lattices. His main focus is on the study of convergence structures on vector lattices, their classification, and connection to the projection properties of vector lattices.

[See Details Here](#)



[van Eeden Seminar: Sherri Rose](#)

April 4, 2024: Hybrid

3 PM Pacific Time

[Ethical AI is More than Loss Functions.](#)

Dr. Sherri Rose has been invited to be this year's van Eeden speaker by the graduate students in the Department of Statistics at the University of British Columbia. Her research is centered on developing and integrating innovative statistical machine learning approaches to improve human health and health equity. Dr. Rose comes from a low-income background and is committed to increasing justice, equity, diversity and inclusion (JEDI) in the mathematical and health sciences.

[View Event Details](#)

EDUCATION OPPORTUNITIES



[Registration Open: ELMACON 2024](#)

ELMACON returns again this year! The contest will take place on **Saturday, May 4, 2024** at the UBC Vancouver campus in the Earth Sciences (ESB) Building. Registration is now open and will remain so until **April 14, 2024**..

[More Contest Details](#)

View our calendars for more meetings and events

Scientific Events

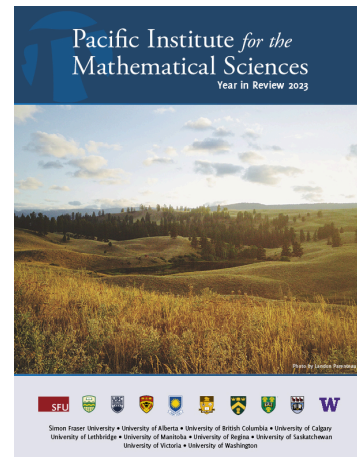
Industrial Events

MEDIA

PIMS 2023 Year in Review is Out!

Our Year in Review publication is now available for download. The publication looks at our scientific successes in 2023, PIMS Action on Climate Thematic Summer highlights, partnerships with international organizations, industry and educational highlights, and a 2024 outlook with an aim to create an equitable, diverse and inclusive community in the mathematical sciences.

[Download the publication.](#)



2024 PIMS Event Highlights Calendar.

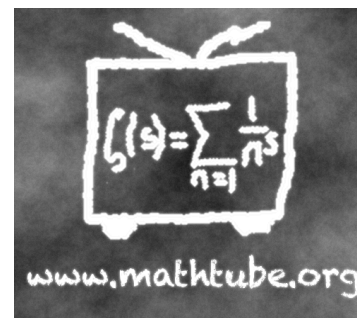
PIMS is happy to share our Event Highlights for the 2024 Calendar year. Many of our workshops, seminars, summer schools, and workshops will be hosted online, in person, or through a hybrid combination—depending on current institutional guidelines. Please check out our events page for more details.

[Download the calendar.](#)

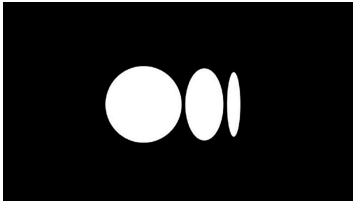
Missed a Lecture? Go to Mathtube.Org

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



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.

[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 Səl̓ílwətaʔ/Selilwitulh (Tsleil-Waututh) Nations.
www.native-land.ca