



Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | NOVEMBER 2022



UNIVERSITY OF
CALGARY

Hello from PIMS

It's hard to believe that it is November already. We hope you are enjoying the Fall colors and the change in season. Here at PIMS our scientific and educational events continue to run both in person and online, please continue to check our upcoming [scientific](#) and [educational](#) events.

Nominations for the **PIMS Postdoctoral Competition** are still open. Candidates must be nominated by a scientist or departments affiliated with PIMS. Fellowships are tenable at any of the 9 PIMS member universities in Canada.

A reminder that **nominations for the CRM-Fields-PIMS prize close on Tuesday, November 15**. This is the premier prize for research awarded jointly by the three Canadian mathematics institutes. The prize recognizes exceptional achievement in the mathematical sciences.

Registration for the [PRIMA 2022 Congress](#) in Vancouver is still open. If you are an international participant flying into Vancouver, take advantage of the [special accommodation booking group rates](#) offered by the Sheraton Wall Centre. Ensure you have booked by **November 11**.

Registration for the [PRIMA Career Fair](#) is also open and stand-alone tickets are still available on the [website](#).

See below for more details on this month's news, announcements, and featured events.

Upcoming Deadlines:

- **November 14** - [Callysto Call for Proposals Close](#)
- **November 15** - [Nominations for the 2023 CRM-Fields-PIMS Prize Close](#)
- **November 15** - [PIMS Education Call for Proposals Opens](#)
- **December 1** - [PIMS Postdoctoral Competition: Call for Nominations Close](#)
- **December 9** - [Late registration closes for PRIMA 2022](#)

Sincerely,
The PIMS Team

NEWS & ANNOUNCEMENTS



CONGRATULATIONS TO THE 2022 PIMS-EUROPE FELLOWSHIP RECIPIENTS!



Yaozhong Hu
University of Alberta



Sabin Cautis
UBC



Jinniao Qiu
University of Calgary



Rachel Ollivier
UBC

Winners Announced for the 2022 PIMS-Europe Fellowships!

PIMS is pleased to announce the winners of the PIMS- Europe Fellowship. Yaozhong Hu (UAlberta), Sabin Cautis (UBC), Jinniao Qiu (UCalgary), and Rachel Ollivier (UBC) are the recipients of this year's fellowship. The 2022 winners are expected to begin their research in France over a period of at least 2 months in 2023.

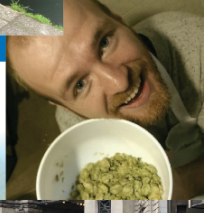
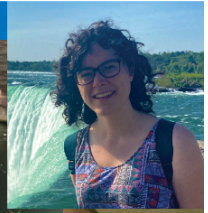
[Read the Announcement](#)

Pacific Institute *for the*
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2023–2024 PIMS Postdoctoral Competition: Call for Nominations

PIMS invites nominations of outstanding young researchers in the mathematical sciences for postdoctoral fellowships beginning in the academic year 2023-2024.

Applications close on Dec 1, 2022



Nominations for the PIMS Postdoctoral Competition Closing December 1.

PIMS invites nominations of outstanding young researchers in the mathematical sciences for postdoctoral fellowships beginning in the academic year 2023-2024. 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 based on the scientific qualifications of the candidate, demonstrated scientific leadership, the fit between the research interests of the candidate and those of the sponsor, and adequacy of matching funds. We strongly encourage people from historically underrepresented groups to apply for these positions. **Nominations close on December 1, 2022.**

[See Nomination Details](#)



Call for Nominations: 2023 CRM-Fields-PIMS Prize.

The [Centre de Recherches Mathématiques](#) (CRM), the [Fields Institute](#), and the Pacific Institute for the Mathematical Sciences (PIMS) invite nominations for the CRM-Fields-PIMS prize, awarded in recognition of exceptional research achievement in the mathematical sciences. The candidate's research should have been conducted primarily in Canada or in affiliation with a Canadian university. As part of our commitment to equality, we **particularly encourage nominations of women and of members of underrepresented groups**. Nominations should be **submitted by November 15**.

[See Nomination Details](#)



PIMS/BIRS Team Up! Pathways to Inclusive Research

PIMS-BIRS Team Up! Program Applications Open.

The PIMS/BIRS Team Up! program provides opportunities for in-person collaboration to teams of mathematical scientists, targeting researchers whose research program may have been disproportionately affected by various obstacles like family obligations, professional isolation, access to funding, and the COVID-19 pandemic. This includes, but need not be limited to, **women, gender-expansive, and minoritized groups, Indigenous scholars, individuals with visible/invisible challenges, and early-career researchers with limited resources**.

Successful applicants will receive lodging and meals at one of the BIRS sites in Banff or Kelowna (subject to availability) and reasonable travel expense reimbursement. A key goal of this program is to provide its participants with a distraction-free opportunity to engage fully in research activities. To help with caregiving responsibilities, support may be offered in the form of either lodging and reimbursement of travel expenses for children accompanying the member and accommodation and travel expenses for a caregiver.

We are currently accepting applications for residences in the period September 1, 2023–August 31, 2024. **Complete applications (including demographic information for all collaboration members) must be received by March 30, 2023.**

[See Application Details](#)


Globalink Research Award Thematic Call: Applications Open!

Mitacs is pleased to launch another thematic call in cooperation with several of our international partners. This is a competitive call for applications to our Mitacs Globalink Research Award program in all areas of strategic importance for the Canadian and international research communities. Themes include but are not limited to: Advanced computing (AI and Quantum

Under the joint supervision of a home and host professor at a university in Canada and an institution affiliated with one of Mitacs's international partners, senior undergraduate and graduate students as well as postdoctoral fellows included in successful applications will receive a \$6,000 research award to conduct a 12- to 24-week research project in the other country. Professors can submit projects by **November 25, 2022, at 5p.m. PT.**

[See Application Details](#)

January 1, - April 30, 2023 | PIMS Partner Sites

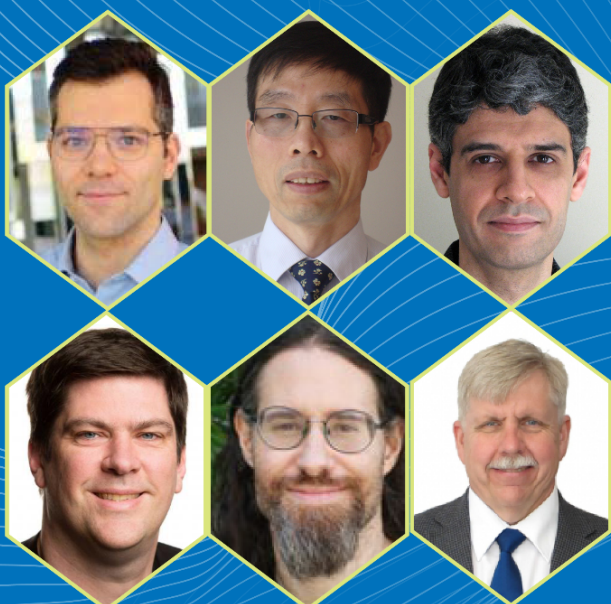


Pacific Institute *for the*
Mathematical Sciences

PIMS Network Wide Graduate Courses

Open for Registration!

The Winter 2023 network-wide graduate courses in the mathematical sciences are available online and provide access to experts from throughout the PIMS network. Students at Canadian PIMS partner sites can register and receive graduate credit.



It is **recommended** to enroll at least **6 weeks** in advance. See [website](#) for current courses.

PIMS Network Wide Courses: Enrolment Open.

Registration for Winter 2023 network-wide graduate courses is still open. Students at Canadian PIMS member universities can register for these courses and receive graduate credit via the [Western Deans Agreement](#).

- [Gaussian and Empirical Process Theory for High Dimensional Statistics](#)- Alexander Giessing (University of Washington), Jiahua Chen (University of British Columbia)
- [Nanoscale Modelling and Simulations](#)- Alireza Nojeh (University of British Columbia)
- [Lie Groups: Structure and Representation Theory](#)- Lior Silberman (University of British Columbia)
- [Analytic Number Theory II](#)- Greg Martin (University of British Columbia)
- [Methods for Multivariate Data](#)- Kevin J. Keen (University of Northern British Columbia)
- [Stochastic Differential Equations](#)- Yaozhong Hu (University of Alberta)
- [Geometry and Mechanics](#)- Rouslan Krechetnikov (University of Alberta)
- [Algebraic Topology](#)- Martin Frankland (University of Regina)
- [The Mathematics of Evolution](#)- Ailene MacPherson (Simon Fraser University)
- [Classifying Spaces of Algebraic Groups](#) - Nikita Karpenko (University of Alberta)

See the [PIMS Courses website](#) for more information and registration details. In some cases, students must enroll **6 weeks** in advance of the next term, so register early.

[See Courses Details](#)

FEATURE EVENTS



CANSSI-PIMS EDI Workshop: Addressing Conflicts Related to Bias, Privilege and Identity in STEM Fields.

November 14, 2022. 12pm Pacific. Online

Faculty in the STEM disciplines can often feel unprepared to address identity-based conflicts in academic settings. Even those who want to have tough conversations regarding identity, bias, and privilege can feel inadequately equipped to facilitate a conversation when a conflict arises. You may be asking yourself: What if I say something wrong? What if I make things worse?

We invite you to join us for this two-hour online workshop led by Chandani Patel of New York University and co-presented by the Pacific Institute for the Mathematical Sciences (PIMS) and the Canadian Statistical Sciences Institute (CANSSI).

No matter the discipline, these crucial conversations are coming up in every learning space across higher education, and avoiding them is not an option. Every instructor can prepare to notice identity-based conflicts and intervene to reduce harm. This highly interactive virtual workshop will provide a supportive space to learn about the types of conflict that can arise, and how to facilitate micro interventions to confront bias and move towards more equitable learning, teaching, and research environments.

[Register for Event](#)



2nd Canadian Geometry-Topology Seminar

November 11 - 13, Université du Québec à Montréal



The 2nd Canadian Geometry-Topology Seminar.

November 11 - 13, 2022. Université du Québec à Montréal

The Canadian Geometry-Topology Seminar is a biennial conference devoted to showcasing the most recent and significant contributions of early-to-mid career Canadian researchers in geometry and topology. It also provides a venue for networking between researchers of all career stages and is a joint venture of the CRM, the Fields Institute and PIMS. Partial funding is available for graduate students and other young researchers without grant support.

[See Event Details](#)



Indigenizing University Mathematics 2.

November 28 - December 2, 2022. Université du Québec à Montréal

A four-day symposium of talks, panels, yarning, and sharing. The theme this year is *Indigenous perspectives on maths and applications*. PIMS is proud to be a sponsor for this symposium, which is part of an ongoing project called the [Indigenizing University Mathematics Project](#).

[Register for Event](#)

EDUCATION HIGHLIGHTS



Callysto

Call for proposals

Callysto Call for Proposals Open.

If you teach Grades 5-12 students in Canada, Callysto wants to help fund your classroom activities related to **computational thinking, data literacy, and coding**. Callysto is a free, online program that helps Grades 5-12 students and teachers in Canada learn and apply in-demand data science skills — including data literacy, analysis, visualization, coding, and computational thinking — across any subject matter. This is Callysto's fifth Call for Proposals — the theme for this Call for Proposals is **Developing Responsible Digital Citizens**. [Read about our past recipients for proposal ideas and inspiration](#).

Applications will be accepted as part of a rolling intake until 4:00 pm Mountain Time on November 14, 2022 (extended).

[See Application Details](#)

PIMS Education Call for Proposals Opens on November 15.

PIMS welcomes applications for support of education activities in the mathematical sciences to occur after April 3, 2023. Applications will open on **November 15th** and the deadline for submission is **February 28, 2023**. We will be awarding grants from \$500 up to \$5000. Proposals will be reviewed by the PIMS Education Review Panel in early March, with awards announced on March 15th.

[See Application Details](#)

View our calendars for more meetings and events

[Scientific Events](#)



December 4–9, 2022 | Vancouver, BC | #PRIMA2022

Pacific Rim Mathematical Association
Congress 2022**Conference Accomodation Offer**

between December 1 and 15

at the Sheraton Wall Centre

Book your stay at a special group rate. Offer available until

November 11**Pacific Rim Mathematical Association (PRIMA) Congress 2022.****Dec 4–9, 2022: In-Person, Vancouver, BC**

Conference Accommodations: The Sheraton Wall Center (the PRIMA conference venue) is offering a special group rate of \$179 (CAD) per night for stays between **December 1st and 15th, 2022**. This offer is available until **November 11**. [Book your group rate room for PRIMA2022](#).

Visit the [PRIMA Congress 2022](#) website to read more about the program, how to register for tickets, and featured plenary and public speakers.

**PRIMA 2022 Career Fair.****December 7: In-Person, Vancouver, BC**

Are you a mathematical scientist looking to work in industry? At the PRIMA Career Fair you will be able to connect directly with employers to find out what career opportunities are available to people with your specific skills. Visit the [PRIMA Congress 2022](#) website to find out more details about the fair. If you only want to attend the fair, you can [book a stand-alone ticket online here](#). Attendance at the Fair is free for students.

Recruiters: If your company is interested in participating in the PRIMA Career Fair, please get in touch via email at industry@pims.math.ca, or directly via the website.

Get your stand-alone tickets!



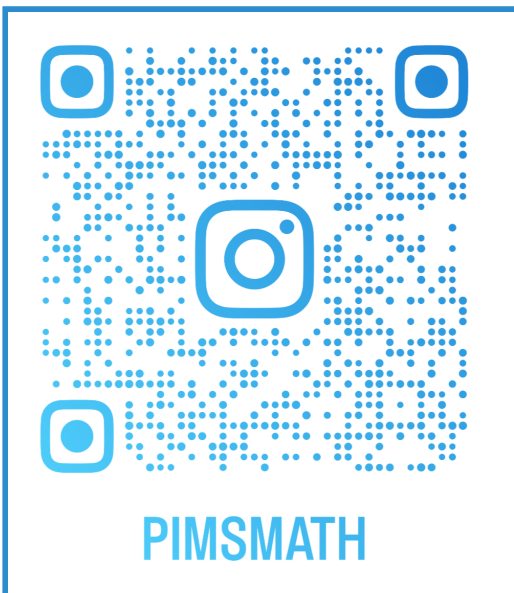
PRIMA 2022 Conference Banquet: Hosted by QAI

December 7: In-Person, Vancouver, BC

Join us for a special PRIMA Conference banquet on the evening of December 7. The banquet is hosted by the [Quantum Algorithms Institute](#) with a keynote on the application of quantum technology to real-world problems. Tickets for the banquet are available for purchase until **November 30, 2022**.

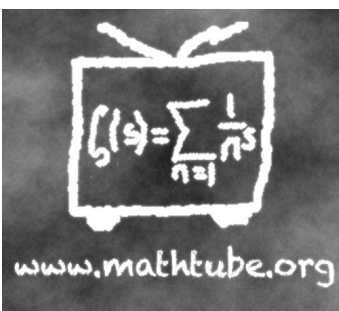
[Get your banquet tickets!](#)

MEDIA



PIMS is officially on Instagram!

Follow us at [@pimsmath](#) to keep in touch with all #PIMS news and math content.

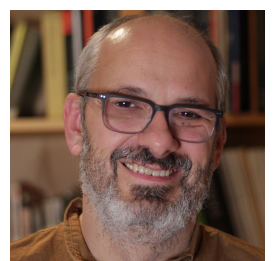


Missed a Lecture? Go to [Mathtube.Org](#)

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 CRM-Fields- PIMS Prize Lectures (see below) visit [www.mathtube.org](#) to see these and other archives.

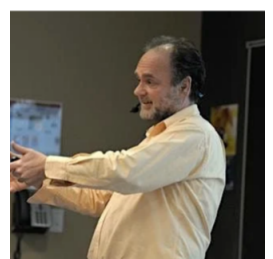
CRM-Fields-PIMS Prize 2022 Winner: Bálint Virág

[Random plane geometry - a gentle introduction](#)



CRM-Fields-PIMS Prize 2021 Winner: Andrew Granville

[Primes, postdocs and pretentiousness](#)



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

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.



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