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3 DECADES OF ADVANCING THE MATHEMATICAL SCIENCES.

PIMS MONTHLY CONNECTION | July 2026

Welcome to PIMS Connection! Showcasing collaborations, discoveries, and leadership driving innovation — as we celebrate 30 years of advancing mathematical sciences.

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PIMS NEWS



PIMS Thematic Year on Mathematics and Artificial Intelligence

We are pleased to announce the Thematic Year on Mathematics and Artificial Intelligence (2026–2027), the first thematic year supported through the Simons Foundation grant.

Reflecting the growing importance of mathematics in shaping the future of AI, the program will bring together researchers, students, industry, and policymakers through workshops, conferences, and collaborative initiatives. Planned activities include:

- A [Lean and LLM workshop](#) (August 2026, UBC) on AI-assisted formalization and theorem proving
- A [Women in Mathematics of Data Science](#) workshop
- A panel on “Mathematical Foundations of Canada’s AI Future” that PIMS is organizing jointly with the Canadian mathematical sciences institutes at a special summit on AI and Policy Making at the Canadian Science Policy (CSPC) Conference
- An AI-focused cohort within the [Math to Power Industry \(M2PI\)](#) program
- A special session on the mathematical foundations of AI at the [2027 Joint Mathematics Meetings](#) (Chicago, January 2027), organized by PIMS, alongside the CRM-PIMS-AARMS-Fields invited address
- The MATHAM conference on Mathematics for AI (in development)

These activities span the full breadth of the theme, from foundational research to industry translation to equity and community building. To learn more, contact your [Site Director](#), or the [PIMS Directorate](#).



A Successful Industry Collaboration

The 2026 M2PI program has concluded after three intensive weeks of collaboration between graduate students, postdoctoral researchers, faculty mentors, and industry partners. 37 trainees worked on eight real-world projects ranging from climate science and artificial intelligence to quantum technologies.

“M2PI is a hidden gem of the Canadian innovation ecosystem.” One of the many positive endorsements received from this year’s industry partners, highlighting both the value of the program and the exceptional talent of its participants. PIMS thanks all participants, mentors, faculty advisors, and partner organizations for their contributions to another successful year of M2PI. [...]



PIMS at 30: Real-World Impact

For 3 decades, PIMS has supported the research and collaborations that help address some of society’s most complex challenges. Mathematics underpins advances in artificial intelligence, climate and weather forecasting, public health, quantum science, and many other fields.

By bringing together expertise from academia, industry, and government, PIMS has helped create the conditions for collaboration, support and discovery. Through CRGs, research networks, and industry partnerships, mathematical ideas move from theory to application—advancing technology, informing decision-making, and deepening our understanding of the world.

[Read the full article](#) to explore how PIMS-supported mathematics is making an impact in Canada and beyond. [...]

PIMS NETWORK DEADLINES

Lean with LLM Integration Workshop: Call for Participation

Deadline: July 8, 2026 | August 17–19, 2026 | [PIMS Central - University of BC](#)

PIMS invites faculty from across the network to apply for a hands-on workshop exploring the use of the Lean theorem prover with large language model (LLM) tools. Led by Eric Klavins (University of Washington), the workshop will combine short lectures with guided coding sessions designed to [help participants integrate these emerging technologies into their research, teaching, and mentorship activities](#). No prior Lean experience is required. [...]

PIMS 2026 Network-Wide Courses

WDA deadlines may be as early as July so students are encouraged to register early. Network-Wide Courses provide graduate students with access to leading researchers and specialized topics from across the PIMS network. Delivered online and available for graduate credit at participating institutions, these courses connect students with experts from across Canada and beyond.

New Courses offered: Quantum Theory, taught by Sven Bachmann (University of British Columbia), and Time Series Analysis and Forecasting, taught by Andrei Volodin (University of Regina). [...]

2027 CRM-Fields-PIMS Prize: Call for Nominations

Deadline: Nov 1, 2026 Nominations are now being accepted for the 2027 CRM-Fields-PIMS Prize, one of Canada’s most prestigious awards in the mathematical sciences. This award celebrates excellence across a broad range of mathematical disciplines and highlights the strength of Canadian mathematical research on the international stage. Researchers are encouraged to submit nominations for outstanding candidates. [...]

FEATURE EVENTS

SFU-UBC Computational Math Day

July 10, 2026 | [Simon Fraser University](#)

This edition of SFU-UBC Computational Math Day will feature a keynote lecture on fairness and foundations in artificial intelligence, exploring emerging challenges and opportunities in machine learning. The event brings together researchers and students interested in computational mathematics, data science, and AI for a day of discussion and knowledge exchange.

The 38th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2026)

July 13–17, 2026 | [University of Washington](#)

FPSAC is the premier international conference in algebraic combinatorics, bringing together researchers from around the world to share advances in combinatorics, algebra, geometry, computer science, and related fields. The [annual conference](#) provides a forum for presenting new research, fostering collaboration, and exploring emerging directions in the discipline.

Diversity in Research Experiences Across Mathematics (DREAMs) Institute

July 13–30, 2026 | [Online](#)

The DREAMs Institute introduces participants to foundational areas of mathematics through lectures, collaborative learning, and inquiry-based research projects. Working closely with faculty mentors and graduate teaching assistants, [participants gain research experience while building connections](#) within a diverse and supportive mathematical community.

Security and Privacy Immersive Summer Experience (SPISE)

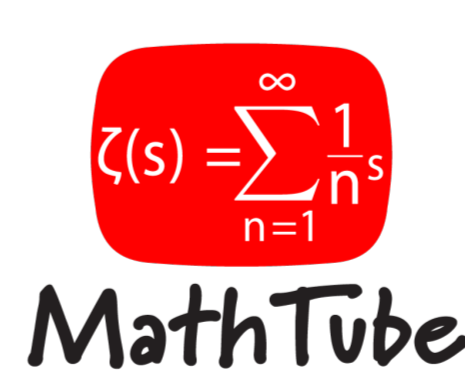
July 27–31, 2026 | [University of Calgary](#)

SPISE is a week-long summer program introducing students to digital privacy, cybersecurity, and related career pathways. Through hands-on activities, team challenges, and interactions with researchers and industry professionals, participants gain exposure to the [rapidly evolving fields of cybersecurity and data protection](#). Registration is closed.

MEDIA

Missed a Lecture?

Watch Anytime on MathTube. Explore a rich archive of videos and lecture notes across the mathematical sciences, including PIMS Seminars & Colloquia, at [www.mathtube.org](#).



ABOUT PIMS

Founded in 1996, the Pacific Institute for the Mathematical Sciences (PIMS) promotes discovery, understanding, and collaboration in the mathematical sciences. With a network spanning Western Canada and Washington State, PIMS supports research, training, and outreach through Collaborative Research Groups, Postdoctoral Fellowships, and competitive event funding. Our mission is to advance excellence in mathematics while fostering equity, diversity, inclusion, and global partnerships.

Your Support Makes a Difference

PIMS education and outreach programs reach educators and students through summer schools, math contests, and teacher workshops. Learn more about how your support helps us strengthen mathematical education and engagement.

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Stay up to date with events across the PIMS network through our online calendar. Follow us on [LinkedIn](#) and [Instagram](#) for weekly highlights on courses, lectures, and upcoming activities.



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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 xeməmkwəyəm (Musqueam), Skwxwúmesh (Squamish), and Sellwətsə/Selilwəh (Tsəl-Wautəm) Nations.
[www.native-land.ca](#)