



Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | July 2021



Hello from PIMS

As we transition into July, we have once again been reminded of and saddened by the injustices committed against many Indigenous communities across Canada. We join members of Indigenous communities all over Canada in honouring and remembering the victims of the residential schools, whose unmarked graves have been discovered in British Columbia and Saskatchewan. **A statement from PIMS leadership can be read below**

Beginning July 1, **Prof. Özgür Yilmaz will join PIMS as the Interim Deputy Director**. We thank Prof Marni Mishna for all her work at the institute. Also joining the PIMS Executive Leadership team is **Prof. Stephanie Portet, the new Site Director at the University of Manitoba**. She will be carrying on with the work started by Prof Kirill Koputun, who represented UManitoba since 2015. More details on these transitions are in the news section below.

This month we host the **PIMS Diversity in Mathematics Summer School** for the fourth time. This year the online summer school offers two streams for high school students who are in grades 9 -12, and will be held for one week. Applications for this program are open until July 5, 2021. See the feature below for details.

The second iteration of the **Math^Industry Workshop** takes place in August. Applications for this highly anticipated program for junior researchers will open on July 5. Mark your calendars!

More details on this month's featured events, news, and publications are provided below.

Sincerely,
The PIMS Team

Statement from PIMS on the discovery of the remains of Indigenous children in Kamloops and Cowesses.

The Pacific Institute for Mathematical Sciences (PIMS) is saddened by the discovery of the unmarked graves of 751 people outside the former Marieval Indian Residential School at Cowessess First Nation on Treaty 4 Territory. This discovery follows the similar discovery of the unmarked graves of 215 people on the site of the former Kamloops Indian Residential School on the territory of the Tk'emlúps te Secwépemc, and many other unmarked graves across Canada that are now being discovered. These discoveries highlight the violence and discrimination propagated through the residential school system.

PIMS is a distributed institute whose member universities sit on Indigenous, First Nations, Inuit

Read the full statement from PIMS here

FEATURE EVENTS

[Theta Series: Representation Theory, Geometry, and Arithmetic Conference](#) July 5- 9, 2021



The purpose of the conference is to bring together experts from across automorphic forms, representation theory, and arithmetic connected to the theory of theta series and the theta correspondence in order to survey the most recent developments and to open up future courses of investigation. This conference marks the 70th birthday of Steve Kudla, whose mathematical work has made a profound impact on the themes of the conference.

Diversity in Mathematics
High School Math Camp for Indigenous Students
July 26–30, 2021

Are you in grade 9 or 10? Are you interested in getting a jump start on your journey towards mastering Calculus and unlocking the door to many careers in STEM!

The primary goal of this online camp is to provide an opportunity for indigenous students to explore their talents and develop a solid foundation of key mathematical concepts in preparation for success in the STEM stream of high school math courses.

Students will also be exposed to real-world applications of mathematics working alongside peers also interested in STEM.

For more information and to register:
<https://www.pims.math.ca/educational-event/21026-dmhcis>

Dalhousie UBC Mathematics

Diversity in Mathematics
High School Math Camp
July 26–30, 2021

Are you in grade 11 or 12? Do you find math stimulating and want to challenge yourself? Learn how math can be part of your future career!

This online camp will expose students to real-world applications of mathematics while working alongside peers also interested in STEM. Participants will explore their talents and further develop their mathematical skills in a collaborative and encouraging environment.

The program will not just teach exciting math, but also showcase role models and create a self-sustaining support system by training future leaders.

Be part of a community that promotes diversity and inclusivity in STEM fields!

FACULTOR
Charles Doran
Professor

INTRODUCTORS

Deborah Gates
Professor of Mathematics
Creaney and Kesteven

Elena Kalashnikov
Lecturer & Tutor
Assistant for Business Studies
of Geometric Biology Physics
and Composites

Kevin Iga
Professor
Topology of Surfaces

For more information and to register:
<https://www.pims.math.ca/educational-event/21026-dmhcis>

Dalhousie UBC Mathematics

[2021 Diversity in Math High School Summer Camp](#) July 26- 30, 2021, Online

Hosted for a Fourth year by PIMS, Diversity in Mathematics is part of a multi-year, multi-level program geared towards promoting diversity and inclusivity in STEM. This program will not just teach exciting math, but also showcase role models and create a self-sustaining support system by training future leaders. Two offerings are available for high school students:

- **High School Math Day Camp for Indigenous Students:** For Indigenous students in Grades 9 or 10, transitioning into the precalculus stream of math courses in high school.
- **High School Diversity in Math Day Camp:** For high school students in grades 11 or 12 who would like to explore higher-level math topics that are not part of regular school curricula.

The application deadline is July 5, 2021

SAVE THE DATE!

Math^{Industry} 2021

4 week virtual workshop, August 3–27

Math^{Industry} workshop is geared to graduate students and postdoctoral fellows in math who wish to gain industry skills, setting themselves up for success in their careers.

[Math^{Industry} August 3- 27, 2021](#)**Applications open July 5, 2021.**

PIMS is excited to offer the second virtual Math^{Industry} workshop for graduate students and postdoctoral fellows. This workshop is geared for junior researchers in the mathematical and statistical sciences, helping them to gain the industry skills needed for success in their careers. Participants will:

- Build technical skills in programming and computational workflows
- Learn business skills for effective teamwork and technical report writing
- Leverage learned skills to solve industry problems

Click below for upcoming events**Scientific****Education****NEWS & ANNOUNCEMENTS**[Özgür Yılmaz announced as the Interim Deputy Director at PIMS](#)

PIMS is pleased to appoint [Prof. Özgür Yılmaz](#), as the interim Deputy Director, starting on July 1, 2021. Özgür Yılmaz is a Professor of Mathematics at the University of British Columbia. PIMS is grateful to the outgoing Deputy, Prof. Marni Mishna, who has worked with PIMS in initiating and establishing strategic programs, and in streamlining many operational processes.

[New PIMS Site Director at UManitoba](#)

Please join us in welcoming [Stephanie Portet](#), Professor of Mathematics, at the University of Manitoba. She begins her three-year term as Site Director on July 1, 2021. PIMS is grateful to Prof. Kirill Koputun, who has worked diligently in representing the University of Manitoba since it joined the institute in 2015. Prof Koputun has been an invaluable resource for PIMS over the past years and has worked with the executive team in the development of a number of processes at the institute. Prof. Portet's appointment is a natural continuation of this work.



[PIMS Welcomes Proposals for Activities in 2022](#)

PIMS is currently accepting proposals for events in 2022 and beyond. Proposals for events such as conferences, workshops, summer schools, Distinguished Visitors, Focus Periods, Collaborative Research Groups and related activities in the mathematical sciences are accepted. Activities should occur after April 1, 2022 or later. Proposals will be accepted until October 1, 2021.

[Postdoctoral Fellowships in Mathematics for Public Health](#)

The Mathematics for Public Health project (MfPH), funded by NSERC, aims to develop a national network of infectious disease modellers and public health policy makers that can rapidly respond to public health emergencies.

Multiple post-doctoral fellows will be recruited to one of the [11 inaugural MfPH projects](#). Applications should be submitted immediately and will be assessed on a rolling basis. Start dates are negotiable.



MEDIA

June 16, 2021 at 12:00pm Pacific

PIMS 25 Pacific Institute for the Mathematical Sciences

PIMS EDI Panel: Effective Allyship in STEM

 SHIROU WANG UALBERTA	 BOBBY WILSON UWASHINGTON	 SOPHIE MACDONALD UBC	 DOUGLAS FARENICK UREGINA	 GREG MARTIN UBC
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Watch it again! [PIMS EDI Panel on Effective Allyship in STEM](#)

To view past lectures and other PIMS resources, please visit mathtube.org

PIMS COMMUNITY RECENT PUBLICATIONS

2. Jishnu Ray, Feng Wei and Gergely Zábrádi (2020). [Multivariable \$\(\phi, \Gamma\)\$ -modules and Representations of Products of Galois Groups: The Case of Imperfect Residue Field](#)

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. We are proponents of mathematical collaboration with industry, innovation in mathematics education from K-12 to graduate-level initiatives, public outreach, and partnerships with similar organizations around the globe. We fund Collaborative Research Groups, Postdoctoral Fellowships, individual events, and competitive prizes in mathematics.

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](#)



Follow PIMS and be a part of our community



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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 xwməθkwəyəm (Musqueam), Skwxwú7mesh (Squamish), and Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) Nations.

www.native-land.ca