PIMS MONTHLY CONNECTION | September 2019
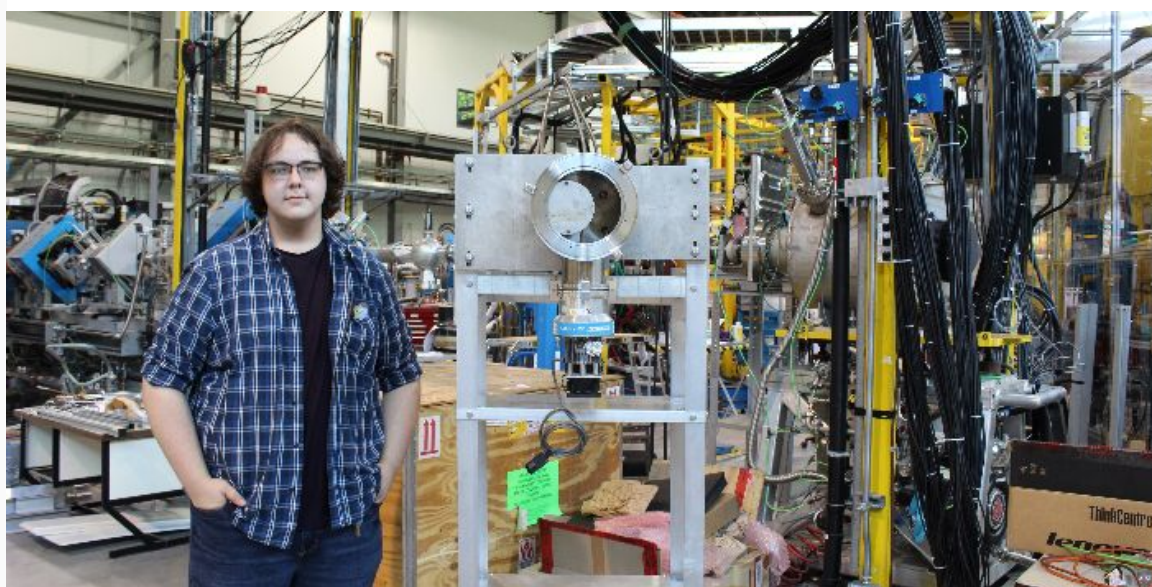
Hello from PIMS

As summer comes to an end so does the hectic season of PIMS events. It's been an incredible year of building on the success of our signature programs that we run annually, such as the *Emerging Indigenous Scholars Summer Camp* pictured above, as well as introducing a host of new and groundbreaking events across the entire PIMS network.

We'd like to say a big thank you to all those who have helped organize these events, which continue the important contribution that PIMS makes to the mathematical sciences.

IMPORTANT NOTICES:

1. **CRM-Fields-PIMS Prize Lecture: Nassif Ghoussoub, UBC, Sept 13. Learn more**.
2. **41st Annual Meeting of Alberta Statisticians, Sept 28. Register now**.
3. **PIMS-UManitoba Distinguished Lecture: Bard Ermentrout, Oct 9, UManitoba. Learn more**.

As we roll into a new academic year there are a number of great events on our calendar.

Sincerely,
The PIMS Team

FEATURE EVENTS

Ghoussoub

September 13, The University of British Columbia.

The CRM-Fields-PIMS prize is the premier Canadian award for research achievements in the mathematical sciences. It is awarded jointly by the three Canadian mathematics institutes. The winner receives a monetary award and an invitation to present a lecture at each institute within one year after the award is announced.

63rd Cascade Topology Seminar
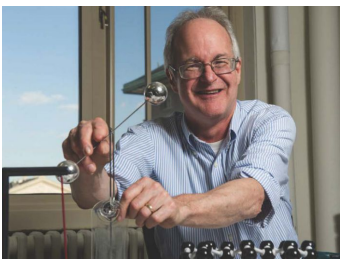**September 14 - 15 at the University of Manitoba**

The theme of this conference will be low-dimensional topology and the connections with mapping class groups and related topics in geometric group theory.

The 14th Richard & Louise Guy Lecture Series: Alice Silverberg
September 19, 2019, The University of Calgary.

Join Alice Silverberg as we discuss cryptography through the ages, and how modern cryptography uses mathematics, especially the field of number theory.

41st Annual Meeting of Alberta Statisticians
September 28 at the University of Calgary

The meeting is open to faculty, graduate students and non-academic statisticians in Alberta to interact, and discuss their research.

PIMS - UManitoba Distinguished Lecture: Bard Ermentrout
October 9 at the University of Manitoba

If Space Turned out to be Time: Resonances and Patterns in the Visual Cortex

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Click below for all events | September 2019

Scientific

Educational

### Industrial

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NEWS & ANNOUNCEMENTS

Data Science For Albertans Industry Fellowships

In partnership with Cybera and the University of Calgary
This program helped small-to-medium-sized businesses tackle industry problems by pairing them
with emerging data scientists who are looking for in-the-field experience.

The four-week industry fellowships brought together six companies wanting to leverage data
science, and 22 newly trained data scientists in Edmonton and Calgary.

Photo: Cybera
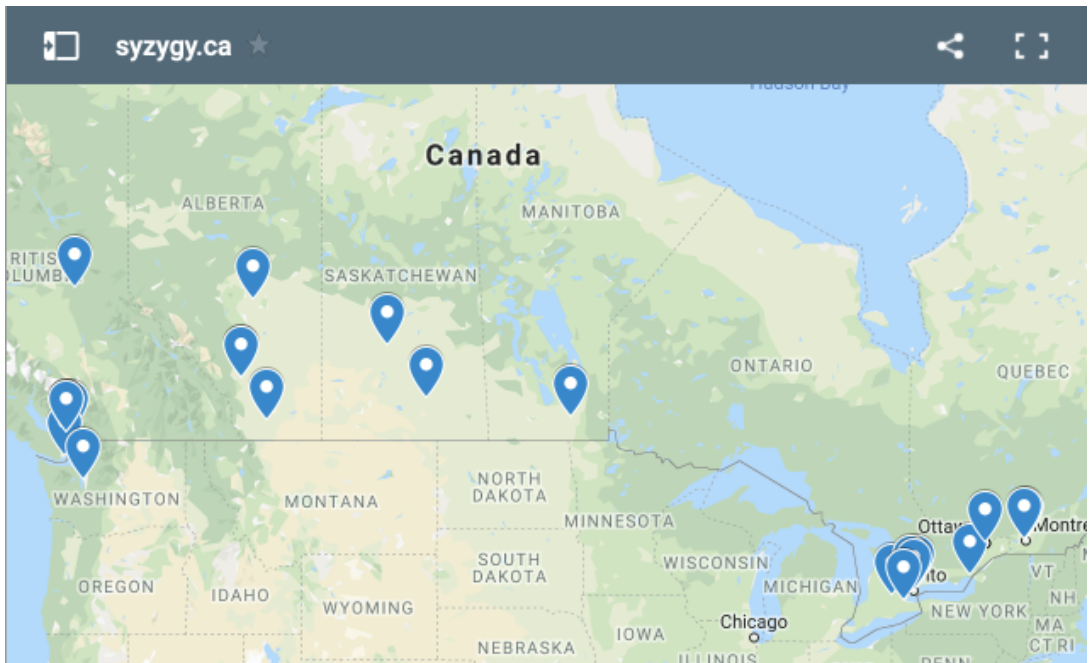
National Scale Interactive Computing with Syzygy

PIMS Director, James Colliander, writing for the Jupyter Blog
Syzygy, a cloud-hosted interactive computing platform that delivers JupyterHub deployments for
universities across Canada.

MEDIA

Breaking Down Barriers in Indigenous Education
Empowering Indigenous students to enrol in an undergraduate STEM program and
succeed in their careers.

For more lectures and PIMS resources, please visit mathtube.org

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PIMS COMMUNITY RECENT PUBLICATIONS

1. Shen. L., Lin. A., "Conic Kahler-Einstein metrics along simple normal crossing divisors on Fano manifolds" J. Funct. Anal. 275 (2018), no.2, 300-328.

2. Chen. J, Man Sun Ma. J., "The space of compact self-shrinking solutions to the Lagrangian mean curvature flow in C2" J. Reine Angew. Math. 743 (2018), 229-244.

3. Kulkarni. A., Maxedon. G., Yeats. K., "Some results on an algebro-geometric condition on graphs" J. Aust. Math. Soc. 104 no 2 (2018) 218-254

4. Johnson. S., Mishna. M., Yeats. K., "Towards a Combinatorial Understanding of Lattice Path Asymptotics" Advances in Applied Mathematics Volume 92, January 2018, Pages 144-163

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, Post-Doctoral Fellowships, individual events, and competitive prizes in mathematics.

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