



# Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | January 2019



## HAPPY NEW YEAR FROM PIMS

We hope everyone is well rested after the festive period and ready for a busy start to 2019. We're looking forward to continuing where we left off in December - with a host of quality events in the field of the mathematical sciences.

### IMPORTANT NOTICES:

1. **PIMS - UManitoba Distinguished Lecture: Nancy Reid on January 17 at 4 pm, University of Manitoba.** [Click here for details.](#)
2. **Discrete Math Seminar: Steph van Willigenburg on January 8 at 4 pm, UBC** [Click here for details.](#)
3. **The 2019 Testing Gravity Workshop on January 23-26, at SFU Harbour Centre, Vancouver.** [Click here for details.](#)

December saw the 2018 Canadian Math Society Winter Meeting being held in Vancouver, as well as distinguished lectures and seminars from high-profile speakers, including Alex Mogilner at UBC, Paolo Mancosu at UCalgary, and Asia Ivic Weiss at SFU.

The application deadline for the **PIMS Deputy Director position** is fast approaching but there's still time to apply. Click [here](#) to find out more.

Sincerely,  
The PIMS Team

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## FEATURE EVENTS



## [PIMS UManitoba Distinguished Lecture: Nancy Reid](#)

Thursday, January 17, the University of Manitoba @ 4 pm

Data science is a relatively newly defined area of enquiry deriving from big data. The interplay between them, and their interactions with science, are a topic of ongoing discussion among statisticians.



## [Discrete Math Seminar: Steph Van Willigenburg](#)

January 8 at the University of British Columbia

A seminar on the combinatorial tools needed to state the shuffle conjecture.



## [2019 Workshop on Testing Gravity](#)

January 23-26 at the Simon Fraser University, Harbour Centre, Downtown Vancouver

The workshop will provide an opportunity for theorists, experimentalists and observers to discuss new ways of testing General Relativity



## [PIMS Workshop on Calculus of Variations and Partial Differential Equations Around the Work of Alessio Figalli](#)

February 8-9 at the University of British Columbia

Recent Fields medalist, Alessio Figalli and a few leading researchers in the areas of calculus of variations and partial differential equations, will discuss the state of the art and future directions.

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[Click below for all events | January 2019](#)

[Scientific](#)

[Educational](#)

[Industrial](#)

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## NEWS & ANNOUNCEMENTS





## [Nassif Ghoussoub Named Winner of the 2019 CRM - Fields - PIMS Prize](#)

The 2019 CRM-PIMS Fields Prize is awarded to **Nassif Ghoussoub** of UBC. The prize was awarded by a high-level international committee chosen by the three institutes.



## [PIMS Students Using Drones to Map Coastal Pollution](#)

A unique crowdfunding campaign that's quadrupling every dollar raised to build a new tool for identifying pollution hot spots in coastal ecosystems.



## [Math Circles: 2019 Dates](#)

PIMS and UBC are excited to be bringing back the Math Circles Workshops for elementary school students to Monday evenings this Winter/ Spring 2019.





Ahead of the contest, PIMS will be again running two preparation sessions for interested ELMACON competitors. These preparation sessions last for two hours and are free.

## MEDIA



[Gail Wolkowicz](#) | [Optimizing Biogas Generation Using Anaerobic Digestion](#)

Tuesday, November 27, 2018

PIMS-UManitoba Distinguished Lecture

For more lectures and PIMS resources, please visit [mathtube.org](http://mathtube.org)

## PIMS COMMUNITY RECENT PUBLICATIONS

1. Adcock B., Brugiapaglia S., Webster G., "[Compressed sensing approaches for polynomial approximation of high-dimensional functions](#)" *Compressed Sensing and its Applications. Applied and Numerical Harmonic Analysis*, 2018
2. Brugiapaglia, S., Adcock B., and Archibal, Richard K. d. "[Recovery guarantees for compressed sensing with unknown errors](#)" *Proceedings of the 12th International Conference, Sampling Theory and Applications(SampTA)*, 2017.
3. Songhafouo Tsopméné, P.A., Stanley D., "[Very good homogeneous functors in manifold calculus](#)" Preprint. Submitted to arXiv:1705.0120, 2017
4. Songhafouo Tsopméné, P.A., Stanley D., "[Polynomial functors in manifold calculus](#)" Preprint. Submitted to arXiv:1708.02642, 2017

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

## FOLLOW US!



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