



Pacific Institute *for the*
Mathematical Sciences

PIMS MONTHLY CONNECTION | **June 2021**



Hello from PIMS

June has typically been one of the busiest months at PIMS. Despite the pandemic, we continue to sponsor and host mathematical meetings across our sites. On **June 1**, connect with the UBC Mathematics Department for the annual [Niven Lecture by Dr. Cheryl E. Praeger](#).

The Canadian Mathematical Society, together with various institutes will host the 2021 workshop, [Connecting Women in Mathematics Across Canada](#). This event takes place from **June 2–3** online. The purpose of the event is to support the career development of female-identifying academics in the Canadian math community.

The annual [Frontiers in Biophysics Conference](#) will take place from **June 28–29**. This student-run workshop is open to participants in all stages of their careers and from academic backgrounds such as math, physics, biology, chemistry, medicine, computer science, and engineering.

Nominations are now open for the annual [CRM- Fields- PIMS Prize](#). This is the premier prize for research awarded jointly by the three Canadian mathematics institutes. The winner, selected by a committee appointed by the three institutes, receives a monetary award, and an invitation to present a lecture at each institute within one year after the award is announced.

The **PIMS Digital Collaboration Committee** is pleased to announce a [call for proposals for the Innovative use of Technology in Collaboration](#). This opportunity is open until June 21, 2021, for awards of up to \$5000, for proposals making innovative use of technology to improve collaboration. More details and application instructions are available on our [news](#) page.

Here at PIMS, we say **thank you to our outgoing Director Prof. James Colliander** for leading PIMS over the past five years. Prof. Colliander has made many contributions to PIMS during his five-year tenure, including various improvements to scientific computing in the math community, the annual PIMS Math to Power Industry workshop, and the bcdata lecture series. This June will be Prof Colliander's last month at the helm, and we wish him the very best as he undertakes new adventures at the end of his term.

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

Sincerely,
The PIMS Team

FEATURE EVENTS

2021 Niven Lecture

June 1, 5pm Pacific. Online.

Cheryl E Praeger

The University of Western Australia

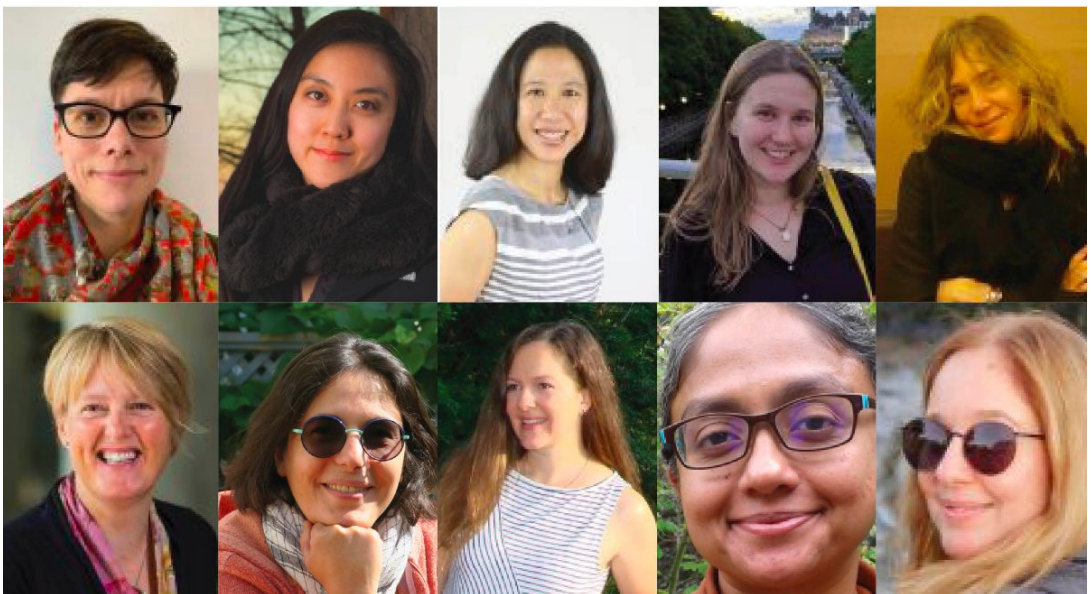
Mathematics of Shuffling



[2021 Niven Lecture - Cheryl E Praeger](#)

Mathematics of Shuffling

The mathematics of shuffling a deck of $2n$ cards with two "perfect shuffles" was studied thoroughly by Diaconis, Graham and Kantor in 1983. I will report on our efforts to understand a generalisation of this problem, with a so-called "many handed dealer" shuffling kn cards by cutting into k piles with n cards in each pile and using $k!$ possible shuffles.



[2021 Connecting Women in Mathematics Across Canada \(CWiMAC\)](#)

June 2–3. Online.

The 2021 Connecting Women in Mathematics Across Canada (CWiMAC) workshop will be held following the 75th+1 Anniversary Meeting of the Canadian Mathematical Society. The purpose of the workshop is to support the career development of junior female-identified academics in the Canadian mathematics community.

Speakers: Gerda de Vries (UAlberta), Anita Layton (UWaterloo), Alexandra McSween (UOttawa)

Panelists: Barbara Csimas, (UWaterloo), Chantal David (Concordia), Megan Dewar (TIMC), Sara Faridi (Dalhousie), Jessica Lin (McGill), Malabika Pramanik (UBC), Alina Stancu (Concordia)

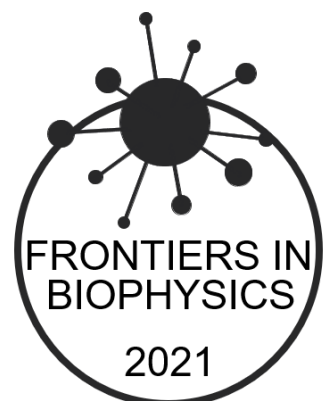
Students or post-doctoral fellows are welcome to contribute a talk at this workshop.

[2021 Frontiers in Biophysics](#)

June 28–29. Online.

Frontiers in Biophysics is a one-day conference designed to promote collaboration and networking within the quantitative biology community in the Pacific Northwest and beyond. Participants in all stages of their careers and from academic backgrounds such as math, physics, biology, chemistry, medicine, computer science, and engineering are welcome to give a talk or present a poster.

Keynote Speakers: *Christopher W. Cairo* (UAlberta),
Raymond E. Goldstein (Cambridge)



Scientific

NEWS & ANNOUNCEMENTS



[PIMS Director received the 2021 Arthur Beaumont Distinguished Service Award](#)

The 2021 Arthur Beaumont Distinguished Service Award is given to Prof. James Colliander in recognition of outstanding service to applied and industrial mathematics at many levels in Canada. The award is given by the Canadian Applied and Industrial Mathematics Society/ Société Canadienne de Mathématiques Appliquées et Industrielles (CAIMS/ SCMAI) for outstanding service to the society or to Applied Mathematics in Canada. Prof. Colliander has been PIMS Director since 2016 and has shown extraordinary leadership and ability to act on emerging opportunities in data science and scientific computing.

CRM-Fields-PIMS Prize 2022

Nominations now Open!

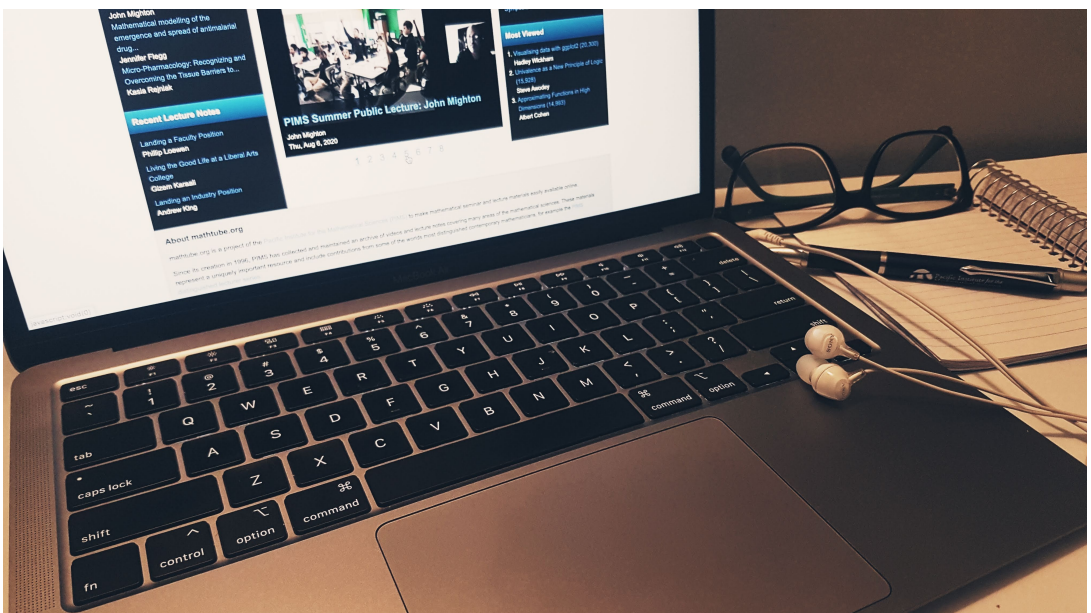
Deadline: November 1, 2021

The prize recognizes exceptional achievement in the mathematical sciences



[2022 CRM-Fields-PIMS Prize - Nominations Open!](#)

The prize recognizes exceptional achievement in the mathematical sciences. It was established by the Centre de recherches mathématiques and the Fields Institute as the CRM-Fields prize in 1994. In 2005, PIMS became an equal partner. The winner, selected by a committee appointed by the three institutes, receives a monetary award, and an invitation to present a lecture at each institute within one year after the award is announced. As part of our [commitment to equality, diversity and inclusion](#), we encourage nominations of women and of members of underrepresented groups. <https://www.pims.math.ca/news/nominations-open-2022-crm-fields-pims-prize>



[Call for proposals for the Innovative Use of Technology in Collaboration.](#)

better support digital interactions through the innovative use of technology. Proposals can include a funding request of up to \$5000 to implement or develop the ideas. Since Digital Interaction and Collaboration has a rapidly expanding horizon, the Committee encourages proposals for Digital Interaction and Collaboration, broadly construed. [Proposals should be submitted by June 21, 2021.](#)

MEDIA



[On Mathematical and Statistical Approaches to Sustainable Hydrology](#)

An interview with PIMS Postdoctoral Fellow: Chandra Rajulapati

Chandra Rajulapati is a GWF-PIMS PDF, working with Dr. Simon Papalexiou at the Global Institute for Water Security (GIWS) at the University of Saskatchewan. Watch her lecture here: [Data Accuracy for Risk Management in Changing Climate.](#)



[New Trends in Localized Patterns in PDEs](#)

Watch it again: Presentations from May 10–13, 2021.

Localized spatial-temporal patterns commonly occur for various classes of linear and nonlinear diffusive processes. This workshop highlights Prof. Ward's influential contributions to the mathematics and applications of localized solutions to PDEs.

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

PIMS COMMUNITY RECENT PUBLICATIONS

1. Chandra Rupa Rajulapati, Harshita Gupta, P.P. Mujumdar. (2020) [Diurnal variability of hydrological variables in urban areas](#), Urban Climate, Volume 33. 100669, ISSN 2212-0955.
2. C.L. Gentemann, C.Holdgraf, R.Abernathey, D.Crichton, J.Coliander, E.J.Kearns, Y. Panda, R. P. Signell (2021). [Science Storms the Cloud](#). In Earth and Space Science Open Archive.

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.

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Pacific Institute for the Mathematical Sciences
The University of British Columbia

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