Sabrina Rose Leslie, Ph.D. F.R.S.C.

Contact information

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Employment/Education

Jan 2018 – Dec 2018 **Visiting Scientist (Sabbatical)**
UBC, Pharmaceutical Science
Stanford, Bioengineering

June 2017 – Dec 2020 **Associate Professor**
Department of Physics & Quantitative Life Sciences Program
McGill University

Jan. 2012 – May 2017 **Assistant Professor**
Department of Physics, McGill University

Mar. 2009 – Dec. 2011 **Marie Fieser Postdoctoral fellow** (Adam Cohen Biophysics Group)
Department of Chemistry and Chemical Biology, Harvard University

Sept. 2002 – Dec. 2008 **PhD in Physics** (Stamper-Kurn Cold Atoms Group)
Dept. of Physics, University of California at Berkeley (UCB),
Berkeley, California, USA (PhD Thesis.pdf)

Sept. 1998 – Apr. 2002 **BSc (Hon.) in Physics and Mathematics**
Dept. of Physics and Astronomy, University of British Columbia,

Distinctions and Awards

[0] Fellow of the Royal Society of Canada, New College 09/2020.

[1] *Biophysical Society of Canada Young Investigator Award*, 10/2019, given to recognize a young Canadian scientist who has made exceptional contributions to biophysics.

[2] *Women in Entrepreneurship Award*, 09/2019, given to startup companies founded by women leaders, includes seed funds for ScopeSys, which I founded (100k CAD).

[3] *adMare Executive Institute*, 09/2019, selected for cohort of 19 biotechnology leads in Canada, incl. 10 months leadership coaching, sponsored by Pfizer (value 18k CAD).

[4] *Keynote Speaker*, 05/2019, 18th Chemical Biophysics Symposium - University of Toronto.

[5] *NSERC Accelerator Award*, 04/2017-03/2020. Recognizes "international" career.

[6] Clark *Science Executive Leadership Fellowship* (SELF), Fall 2016, for an "executive mini MBA", to support scientists with relevant training in management (value 5k CAD).

[7] *McGill Dobson Cup Innovation Competition*, 05/2015, Fourth prize (5k CAD).

[8] *Integrative Biology Poster Prize* (Top Prize), Gordon Research Conference on Single Molecule Approaches to Biology, Il Ciocco, Italy, 7/2010.

[9] *Mary Fieser Postdoctoral Fellowship*, Department of Chemistry and Chemical Biology, Harvard University, 3/2009—3/2010.

[10] *Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship D, International*, 8/2004—8/2006, and *Postgraduate Scholarship A, International*, 8/2002—8/2004.

[11] *Department of Physics Fellowship, UC Berkeley*, 8/2002—8/2004.

[12] *Canadian Scholarship Trust Foundation Graduate Award.* Awarded yearly to 5 graduating undergraduates in Canada, 5/02.

[13] *C.K. Choi Scholarship.* 1 of 5 UBC Presidential Awards to graduating undergraduates), and designation as *Wesbrook Scholar*, 11/2001.

[14] *Dorothy Gladys Studer Memorial Scholarship.* Top marks in Physics, 8/2001.

[15] *International Undergraduate Summer School in Particle Physics and Astronomy*, for 1 undergraduate in Canada selected to attend, awarded full stipend. Cavendish Astrophysics Group, Cambridge, England, 7/2001.

[16] *WH MacInnes Scholarship in Physics and Mathematics.* Top marks in Physics, 3/2001.

[17] *National Research Council Women in Engineering and Science Program Award*, for 2 summer internships, held at NRC's Steacie Institute for Molecular Sciences in the Ultrafast Science Group with Dr. David Rayner and Paul Corkum, 1/2000–5/2002.

[18] *Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Research Award*, for research in Mary Anne White's Materials Science Group at Dalhousie University, Halifax, Canada, 5/1999–8/1999.

[19] *Science Scholar Designation* and *Dean's Honour List*, 5/1999–5/2002.

[20] *Undergraduate Scholars Program*, Entrance scholarship to UBC, 9/1998–5/2002.[21]

Governor General's Award, National award to top student per high school, 6/1998.[22]

BC Science Council Award, Provincial award, top science student per school, 6/1998.

Publication List

Names of my McGill research trainees are underlined and include 5 PhD students, 6 MSc students, > 40 undergraduate students, 4 post docs, and 4 Research Associates (since 2012).

Publications with Peer Review

[1] **Sabrina Leslie*** *Single-molecule imaging of the biophysics of molecular interactions with precision and control, in cell-like conditions, and without tethers.* (Invited review). Current Opinion in Biomedical Engineering, 12:75-82 (2019).

[2] K. Thiombane, N. Coutin, D. J. Berard, R. Tahvildari, **Sabrina Leslie***, C. Nislow.
Single-cell analysis for drug development using CLiC imaging.
Biotechniques, 67(5): 210-217 (2019).

[3] Shane Scott, Cynthia Shaheen, Brendon McGuiness, Kimberly Metera, Fedor Kouzine, David Levens, Craig J Benham, **Sabrina Leslie***.
Single-molecule visualization of the effects of ionic strength and crowding on structure-mediated interactions in supercoiled DNA molecules.
Nucleic Acids Research, 0305-1048 (2019).

[4] Marjan Shayegan, Radin Tahvildari, Lydia Kisley, Kimberly Metera, Stephen W. Michnick **Sabrina Leslie***.
Probing inhomogeneous diffusion in the microenvironments of phase-separated polymers under confinement.
JACS **141**(19),197751-7757 (2019)

[5] Daniel Berard, **Sabrina Leslie***.
Miniaturized flow cell with pneumatically-actuated vertical nanoconfinement for single-molecule imaging and manipulation.
Biomicrofluidics **12**, 054107 (2018)
Recipient of Top Poster Prize at the Canadian Biophysical Society Meeting, June 2018

[6] Shane Scott, Zhi Ming Xu, Fedor Kouzine, Daniel J. Berard, Cynthia Shaheen,Laura Saunders, Barbara Gravel, Alexander Hofkirchner, Catherine LeRoux, Jill Laurin, David Levens, Craig Benham, **Sabrina R. Leslie***.
Visualizing structure-mediated interactions in supercoiled DNA molecules.
Nucleic Acids Research **46**, 4622-431 (2018)
Recipient of Top Poster Prize at UBC Nanomedicine Day Conference, Sept 2018

[7] **Sabrina R. Leslie***, Albert Kamanzi, Daniel Berard, Marjan Shayegan, Gilead Henkin, Jason Leith, Shane Scott, Francis Stabile.
Biological Confinement Physics: Squeezing New Information out of Complex Macromolecules. Invited Review Article, Physics in Canada, Special Issue (2017).

[8] Tyler Shendruck*, Dave Sean*, Daniel Berard*, Julian Wolf, Justin Dragoman, Sophie Battat, Gary Slater, **Sabrina R. Leslie*.**
Rotation-induced macromolecular spooling of DNA
Physical Review X, **7**(3),031005 (2017)

[9] Gilead Henkin, Daniel Berard, Francis Stable, Marjan Shayegan, Jason S. Leith, **Sabrina R. Leslie*.**
Manipulating and visualizing molecular interactions in customized nanoscale spaces.
Analytical Chemistry **88**(22), 11100–11107 (2016)

[10] Jason S. Leith*, Albert Kamanzi*, Dave Sean, Daniel Berard, Andrew Guthrie, Christopher M.J. McFaul, Gary Slater, Hendrick de Haan*, **Sabrina R. Leslie*.**
Free Energy of a Polymer in Slit-like Confinement from the Odijk Regime to the Bulk.
Macromolecules **49**(23), 9266–9271 (2016)

[11] Bojing Jia, Tse-Luen Wee, Daniel J. Berard, Adiel Mallik, David Juncker, Claire M. Brown*, **Sabrina R. Leslie***
Parallelized Cytoindentation Using Convex Micropatterned Surfaces.
Biotechniques **61**, No. 2, 73-82 (2016)

[12] Daniel Berard*, Marjan Shayegan*, Francois Michaud, Gilead Henkin, Shane Scott, **Sabrina R. Leslie*.**
Formatting and Ligating Biopolymers using Adjustable Nanotopographies.
Applied Physics Letters **109**, 033702-033706 (2016)

[13] Jalal Ahamed, Sara Mahshid, Daniel Berard, Francois Michaud, Rob Sladek, Walter Reisner*, **Sabrina R. Leslie***.
Continuous Confinement Fluidics: Getting Lots of Molecules in Small Spaces.
Macromolecules **49**, (7) 2853-2859 (2016).

[14] Sara Mahshid, Mohammed Jalal Ahamed, Daniel Berard, .. Rob Sladek, **Sabrina R. Leslie***, Walter Reisner*
Development of a Platform for Single-Cell Genomics Using CLiC.
Lab on a Chip **15**, 3013-3020 (2015).

[15] Adriel Arsenault, Jason Leith, Gil Henkin, Christopher McFaul, Matthew Tarling, R. Talbot, Daniel Berard, Francois Michaud,Shane Scott, **Sabrina Leslie*.**
Open-frame System for Single–Molecule Microscopy.
Rev. Sci. Instrum. **86(3)**, 033701 (2015).

[16] Daniel Berard, Francois Michaud, Sara Mahshid, Mohammed Jalal Ahamed, Christopher McFaul, Jason Leith, Pierre Berube, Rob Sladek, Walter Reisner*, **Sabrina R. Leslie***
Convex lens-induced nanoscale templating
P.N.A.S. **111**, 37 (2014).
Featured by PNAS Cover commentary, Genome Web, and other media.

[17] Daniel Berard, Christopher McFaul, Jason Leith, Adriel Arsenault, François Michaud, **Sabrina Leslie*.**
Precision Platform for Convex Lens-Induced Confinement Microscopy.
Rev. Sci. Instrum. **84**, 103704 (2013).
Featured as editor's pick on the front page of Rev. Sci. webpage.

[18] Mary Williard Elting, **Sabrina R. Leslie**, L. Stirling Churchman, .. Christopher McFaul, Jason S. Leith, .. Adam E. Cohen, James A. Spudich
Single- molecule fluorescence imaging of processive myosin with enhanced background suppression using linear Zero Mode Waveguides (ZMW) and Convex Lens-induced Confinement (CLiC)
Optics Express **21 (1)**, 1189-1202 (2013).

[19] **Sabrina R. Leslie**, Alexander P. Fields, Adam E. Cohen.
Convex Lens-induced Confinement for Imaging Single Molecules.
Analytical Chemistry **82 (14)**, 6224-6229 (2010).
Featured in Technology Review and C&E News.

[20] **Adam E. Cohen**, Alexander P. Fields, Jennifer H. Hou, **Sabrina R. Leslie**, .. *In honor of W. E. Moerner: Confining molecules for single-molecule spectroscopy.* Isreal Journal of Chemistry (IJC) **49 (3-4)**, 275 (2010).

[21] Jay D. Sau, **S.R. Leslie**, Marvin L. Cohen, D.M. Stamper-Kurn. *Spin squeezing of high-spin, spatially extended quantum fields.* New J. Phys. **12**, 085011 (2010).

[22] M. Vengalattore, J. Guzman, **S. R. Leslie**, .. and D. M. Stamper-Kurn. *Periodic spin textures in a degenerate F=1 ^{87}Rb spinor Bose gas.* Physical Review A **81**, 053612 (2010). **F**eatured in Science News: "Evidence mounts for an exotic supersolid".

[23] **S.R.Leslie**, J.Guzman, M.Vengalattore, J.D. Sau, M.L. Cohen, D.M. Stamper-Kurn. *Amplification of fluctuations in a spinor Bose Einstein condensate.* Physical Review A **79**, 043631 (2009). **F**eatured in PRA's Kaleidoscope.

[24] J.D. Sau, **S.R.Leslie**, D.M. Stamper-Kurn, M.L. Cohen. *Theory of domain formation in inhomogeneous ferromagnetic dipolar condensates* Physical Review A **80**, 023622 (2009). **F**eatured in PRA's Kaleidoscope.

[25] M.Vengalattore, **S.R.Leslie**, J.Guzman, D.M. Stamper-Kurn. *Spontaneously modulated spin textures in a dipolar spinor Bose-Einstein condensate.* Physical Review Letters **100**, 170403 (2008).

[26] M. Vengalattore, J. M. Higbie, **S. R. Leslie**, J. Guzman, .. D. M. Stamper-Kurn. *High-resolution magnetometry with a spinor Bose-Einstein condensate.* Physical Review Letters **98**, 200801 (2007). **F**eatured in Nature research highlights: "Best served chilled".

[27] L. E. Sadler, J. M. Higbie, **S. R. Leslie**, M. Vengalattore, D. M. Stamper-Kurn. *Coherence-enhanced imaging of a degenerate Bose gas.* Physical Review Letters **98**, 110401 (2007).

[28] L. E. Sadler, J. M. Higbie, **S. R. Leslie**, M. Vengalattore, D. M. Stamper-Kurn. *Spontaneous symmetry breaking in a quenched ferromagnetic spinor Bose condensate.* Nature **443**, 312 (2006).

[29] J. M. Higbie, L. E. Sadler, .. **S. R. Leslie**, K. L. Moore, .. D. M. Stamper-Kurn. *Direct, non-destructive imaging of magnetization in a spin-1 Bose gas.* *Physical Review Letters* **95**, *050401 (2005).*

[30] K. L. Moore, T. P. Purdy, K. W. Murch, **S. Leslie**, .. and D. M. Stamper-Kurn. *Collimated, single-pass atom source .. for laser-cooling experiments.* Rev. Sci. Instrum. **76**, 023106 (2005).

[31] **S. Leslie**, N. Shenvi, K. R. Brown, Dan M. Stamper-Kurn, and K. Birgitta Whaley. *Transmission spectrum of an optical cavity containing N atoms.* Phys. Rev. A **69**, 043805 (2004).

Non-refereed publications while at McGill

[1] *Future-Ready: McGill's Sabrina Leslie*
Research and Innovation, McGill University (2019).

[2] **Sabrina R. Leslie**.
CLiC to Enhance - Molecular imaging for the normal lab..
The Pathologist 0214 (2014).

[3] **Sabrina R. Leslie**, Daniel Berard, Jason S. Leith, François Michaud.
Using Tunable Nanoscale Confinement to Image and Manipulate DNA.
OSA Conference Proceeding. Optical Sensors: Micro and Nano-Engineered Sensors, Barcelona, Spain. (2014).

[4] Christopher M.J. McFaul, Jason S. Leith, Bojing Jia, François Michaud, Adriel Arsenault, Andrew Martin, Daniel Berard, **Sabrina R. Leslie**. *Single-Molecule Microscopy Using Tunable Nanoscale Confinement.*
SPIE Conference Proceeding, 8811 (2013).

Invited presentations since 2016

I have given over 70 presentations since 2012, not including industry talks and mostly invited.

Invited conference presentations since 2016

1. **May 21, 2021:** *Precision single-molecule biochemistry using applied nanoscale physics.*
Young Investigator Award Talk, Canadian Biophysical Society Meeting, Dalhousie, Canada

(2020 talks given online due to COVID19 and not yet listed here)

2. **August 25-29, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
ACS Meeting, Symposium on "Confined dynamics of molecules and particles at interfaces, in pores, and under crowded conditions, San Diego, USA.

3. **June 4-5, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
Swedish Microfluidics in Life Science Conference, Chalmers, Sweden.

4. **May 28-30, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
Canadian Biophysical Society - University of Toronto, Canada.

5. **May 3-5, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
Keynote talk for 18th Chemical Biophysics Symposium - University of Toronto, Canada.

6. **March 31 - April 4, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
ACS Meeting, Symposium on "Frontiers in Fluorescence Microscopy". Orlando, Florida.

7. **March 2 - 6, 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration.*
American Biophysical Society Annual Meeting. Baltimore, USA.

8. **15-20 July 2018:** *Single-molecule visualization of structure-mediated interactions in supercoiled DNA.*
Gordon Research Conference, Single-molecule approaches to Biology. Vermont, USA.

9. **26-30 June 2018:** *Single-molecule visualization of structure-mediated interactions in supercoiled DNA.*
Telluride Workshop: Theory Meets Experiment. Telluride, CO, USA.

10. **26-30 May 2018:** *Single-molecule visualization of molecular interactions.*
Columbia Workshop: Molecules, Materials, Devices and Systems in Medicine. Columbia University, New York City, USA.

11. **5-9 March 2018:** *Single-molecule visualization of structure-mediated interactions in supercoiled DNA.*
APS March meeting, Recent Advances in Single Polymer Dynamics. Los Angeles, California, USA.

12. **21-24 February 2018:** *How biomolecules behave in a squeeze.*
DNA and Interacting Proteins as Single Molecules, In Vitro and In Vivo conference, Fiesta Americana Condesa, Cancun, Mexico.

13. **20-24 June 2017:** *Single-molecule visualization of topology-mediated biomolecular interactions, using nanoconfinement microscopy.*
The Complexity of Dynamics and Kinetics from Single Molecules to Cells. Telluride, Colorado, USA.

14. **10 May 2017:** *Single-molecule visualization of topology-mediated biomolecular interactions, using nanoconfinement microscopy.*
Canadian Microscopy and Cytometry Symposium on Micro/Nanofluidics for Optical Microscopy. Montreal, Quebec, Canada.

15. **10 November 2016:** *Squeezing new information out of DNA using tunable nanotopographies.*
Nano Ontario Conference, Guelph, Ontario.

16. **9 September 2016:** *1.) Getting into that room at the bottom: formatting DNA using tunable nanoscale confinement. 2.) How DNA do the twist: visualizing supercoil-induced site-unwinding and site-invasion in DNA loops.*
13th Greta Pifat International School of Biophysics 2016, Croatia.

17. **1 June 2016:** *Squeezing new information out of DNA using tunable nanotopographies.*
Canadian Biophysics Society, University of Manitoba, MB, Canada.

18. **26 May 2016:** *Squeezing new information out of DNA using tunable nanotopographies.*
Next Generation Sequencing GTC Bio Meeting, Boston, MA, USA.

Invited university seminars since 2016

1. **30 January 2020:** *Precision single-molecule biochemistry using applied nanoscale physics: watching many single molecules interact, without tethers and yet with control.* Biophysics seminar, Chalmers Sweden.

2. **21 November 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Biological Physics Seminar, Arizona State University, USA.

3. **18 October 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Center for NanoScience & Physics Dept, LMU, Munich, Germany.

4. **7 March 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Department of Physics, UBC, Vancouver, Canada.

5. **8 & 15 Jan 2019:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Quantitative Life Sciences & Chemistry Dept, McGill University, Montreal, Canada.

6. **10 Dec 2018:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Yale University, New Haven, USA.

7. **23 Oct 2018:** *Deconstructing biology with simple single-molecule imaging: Controlling conformation, confinement, and concentration*
Stanford University, Stanford, USA.

8. **30 April 2018:** *Visualizing and understanding molecular interactions*
BC Cancer Agency, Vancouver, Canada.

9. **14 February 2018:** *Visualizing and understanding molecular interactions*
UBC, Department of Pharmaceutical Sciences, Vancouver, Canada.

10. **4 February 2018:** *Visualizing and understanding molecular interactions*
Simon Fraser University, Biophysics Seminar, Vancouver, Canada.

11. **15 December 2017:** *How biomolecules behave in a squeeze.*
UIUC, Biophysics Seminar, Illinois, USA.

12. **20 November 2017:** *How biomolecules behave in a squeeze.*
UBC, Department of Chemistry, Vancouver, Canada.

13. **27 October 2017:** *How biomolecules behave in a squeeze.*
McGill, Department of Physics, Montreal, Canada.

14. **18 October 2017:** *How biomolecules behave in a squeeze.*
Cornell University, Biophysics Seminar, Ithaca, New York, USA.

15. **8 September 2017:** *Single-molecule visualization of topology-mediated interactions*
Colorado State University, Department of Chemical Engineering, Colorado, USA.

16. **21 April 2017:** *Confinement microscopy of bionano materials.*
Mirexus Inc.and Guelph University, Guelph, Ontario, Canada.

17. **14 November 2016:** *How DNA do the twist: visualizing complex DNA dynamics.*
U.C. Davis, CA, USA.

18. **21 October 2016:** *Squeezing new information out of DNA.*
Oxford University, Oxford, England.

19. **20 October 2016:** *Squeezing new information out of DNA.*
Marie Curie Institute, Paris, France.

20. **19 October 2016:** *How DNA do the twist: visualizing complex DNA dynamics.*
Université Paris Diderot, Paris, France.

21. **18 October 2016:** *Squeezing new information out of DNA.*
Université d'Évry val d'Essonne, France.

22. **27 May 2016:** *Squeezing new information out of DNA.*
NorthEastern University, Department of Physics, Massachusetts, USA.

23. **19 April 2016:** *Squeezing new information out of DNAs.*
University of Rochester, Department of Biomedical Engineering, New York, USA.

24. **29 January 2016:** *Squeezing new information out of DNA.*
Queens University, Department of Physics, Ontario, Canada.

25. **26 January 2016:** *Squeezing new information out of DNA.*
McGill University, Department of Chemistry, Quebec, Canada.

26. **21 January 2016:** *Squeezing new information out of DNA.*
McGill University, Department of Physiology (CAMBAM Series), Quebec, Canada.

Contributed conference presentations since 2016

1. **13-16 Oct 2019:** *ASO-RNA hybridization with single-molecule resolution.*
Oligonucleotide Therapeutics Society. Munich, Germany. Contributed talk.

2. **30 Sept - 3 Oct 2018:** *Single-molecule imaging empowers drug development.*
Oligonucleotide Therapeutics Society. Seattle, Washington, USA. Contributed poster.

3. **13 March 2017:** *Formatting biopolymers using adjustable nanoconfinement.*
APS March Meeting, New Orleans. March 2017. Contributed talk.

4. **13 March 2017:** *Visualizing Molecular Interactions in Nanoscale Spaces.*
APS March Meeting, New Orleans. March 2017. Contributed talk.

5. **12 May 2016:** *Squeezing new information out of DNA.*
Biology of Genomes Meeting, Cold Spring Harbor, New York, USA. Contributed poster.

6. **4 July 2016:** *Squeezing new information out of DNA.*
Single-molecule approaches to Biology, GRC, Hong Kong. Contributed poster.

Intellectual property

Patents

1. **Convex Lens-Induced Confinement (CLiC) for measuring distribution of molecular size:** *US Appl 15/234,964. Filed in August 2016 as a continuation from 2010 application.* ***Issued August 2018.***
   A.E. Cohen, S.R. Leslie.

2. **Nanofluidic platform:** *PCT/IB2017/000555. Filed April 2017.*
   D.J. Berard, G. Henkin, **S. R. Leslie**.

3. **Nanofluidic flow cell and method of loading sample:** *CA 2974368 and US 15/654339, Filed July 2017.*
   D.J. Berard, G. Henkin, A. Kamanzi, **S.R. Leslie**.

4. **Nanofluidic system for molecular imaging:** *US 62/572673, Filed 2017.*
   D.J. Berard, **S.R. Leslie**.

5. **Flow cell:** *US 29611,297 and CA 176351, Filed 2017, Awarded 2019.*
   D.J. Berard, A. Kamanzi, **S. R. Leslie**.

Other contributions

Outreach and media - examples

1. *"Future-Ready: McGill's Sabrina Leslie, McGill Research and Innovation".*
   Web Link (Feb 2019).

2. *"I See Molecules" - Molecule Imaging and Investigation, Studying Interactions for Scientific and Medical Advancement.*
   PodCast Link (Nov 2018).

3. Regular panels, lab tours, and advisory roles to students and junior faculty.

Conference organization - examples

1. Co-organizer of three-day Symposium at the 2020 American Chemical Society (ACS) Meeting. Responsible for inviting the speakers, suggesting and co-organizing the session with Dr. Corey Nislow, UBC Pharm Sci (Online due to C19, September 2020).

2. Member of organizational committee of the 2017 *Biophysical Society of Canada Meeting.* Responsible for invting two sessions of speakers (Montreal, May 2017).

3. Organizer of the CLiC Single-molecule Imaging Workshop. In May 2017, my team trained over 40 industry professionals, professors, and students from Canada, the US, and Europe to use CLiC microscopy during a 2-day workshop. My students played active roles in running this workshop, and gained valuable professional development experience as well as new contacts (Montreal, May 2017).