Adina Luican-Mayer, PhD

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WORK EXPERIENCE AND EDUCATION

University of Ottawa, Department of Physics, Ottawa, Canada 2022 – present
Associate Professor

University of Ottawa, Department of Physics, Ottawa, Canada 2016 – 2022
Assistant Professor

Argonne National Laboratory, Center for Nanoscale Materials, Lemont, IL 2012 – 2015
Alexei Abrikosov Distinguished Postdoctoral Fellowship

Rutgers – The State University of New Jersey, New Brunswick, NJ 2006 – 2012
PhD in Physics

Jacobs University Bremen, Bremen, Germany 2003 – 2006
Bachelor of Science – major in Physics

HONORS AND AWARDS

- Ontario Early Researcher Award 2022
- uOttawa Faculty of Science Early Career Researcher of the year award 2021
- Richard J. Plano Dissertation Prize 2013
- Alexei Abrikosov Postdoctoral Fellowship at Argonne National Laboratory 2012 – 2015
- Alcatel-Lucent fellowship for PhD studies in Condensed Matter Physics 2007 – 2012
- APS Division of Materials Physics Iris Ovshinsky Student Travel Award 2010
- Scholarship from Hamburg University for attending Nanoscience Summer School 2009
- President's List for academic achievements at Jacobs University Bremen 2005 – 2006
- Prizes at National Romanian Physics Olympiads 1999 – 2003

PUBLICATIONS (Google Scholar h-index 17; >4650 citations)

Journal Articles:

1. Molino L, Agrawal L., Emediev V., Falko V., Luican-Mayer A.* Ferroelectric domains in twisted WS_2, in preparation

2. Hamid S., Dacosta T., Kang K., Labbe A., Luican-Mayer A.* Flexible graphene devices for thermal camouflage, in preparation

3. Plumadore R., Agrawal L. Zhu Y., Guan Y., Mao Z., Luican-Mayer A.* Visualizing the surface and edge states in magnetic topological insulator $MnBi_2Te_4$, in preparation.

4. Thoutam L., Patel S., Wang T., Wang Y-L*, Divan R., Martin I., Luican-Mayer A., Welp U., Kwok W-K, Xiao Z-L * Temperature-driven changes in the Fermi surface of graphite, **under review PRL (2022)**

5. Alzate-Carvajal N., Park J., Rautela R., Comeau Z., Scarfe L., Darling S.B., Lessard B., Luican-Mayer A.* Arrays of functionalized graphene field effect transistors for selective sensing of volatile organic compounds, **under review ACS Applied Electronic Materials (2022)**.

6. Boddison-Chouinard J., Bogan A., Fong N., Barrios P., Lapointe J., Watanabe K., Taniguchi T., Luican-Mayer A*, Gaudreau L* Charge detection using a WSe_2 van der Waals heterostructure, **under review Physical Review Applied, arXiv:2203.11871 (2022).**

7. Park J., Jumu F, Power J., Richard M., Elsahli Y., Jarkas M., Ruan A., Luican-Mayer A., Ménard J-M*, Drone-Mountable Gas Sensing Platform Using Graphene Chemiresistors for Remote In-Field Monitoring, ***MDPI Sensors*** 22(6), 2383 **(2022)**

8. [1 citation] Boddison-Chouinard J., Bogan A., Fong N., Watanabe K., Taniguchi T., Hawrylak P., Luican-Mayer A.*, Gaudreau L Gate-controlled quantum dots in monolayer WSe_2 ***Appl. Phys. Lett.*** 119 (13), 133104 **(2021)**.

9. Park J., Rautela R., Scarfe S., Scarfe L., Alzate-Carvajal N., Luican-Mayer A.*, Menard J-M. * UV illumination as a method to improve the performance of gas sensors based on graphene field effect transistors, ***ACS Sensors*** 6 (12), 4417-4424 **(2021)**

10. Alzate-Carvajal N., Park J., Pykal M., Lazar P., Rautela R., Scarfe S., Scarfe L., Menard J-M, Otyepka M., Luican-Mayer A.* Graphene field effect transistors – a sensitive platform for detecting sarin, ***ACS Appl. Mater. Interfaces*** 13, 51, 61751–61757 **(2021)**.

11. [3 citation] Scarfe S., Cui W., Luican-Mayer A.*, Menard J.-M.* Systematic THz study of the substrate effect in limiting the mobility of graphene, ***Scientific Reports*** 11, 8729 **(2021)**

12. [5 citations] Plumadore R., Baskurt M., Boddison-Chouinard M., Lopinski G., Modaresi M., Potasz P., Hawrylak P., Sahin H., Peeters F.M., Luican-Mayer A.* Prevalence of oxygen defects in an in-plane anisotropic transition metal dichalcogenide, ***Phys. Rev. B*** 102, 205408 **(2020)**

13. [10 citation] Alzate N.* and Luican-Mayer A.* Functionalized graphene surfaces for selective gas sensing, ***ACS Omega*** 5, 34, 21320–21329 **(2020)**

14. [9 citations] Rautela R., Scarfe S., Guay J.-M., Lazar P., Pykal M., Azimi S., Grenapin C., Boddison-Chouinard J., Halpin A., Wang W., Andrzejewski L., Plumadore R., Park J., Menard J.-M., Otyepka M., Luican-Mayer A.* Mechanistic insight into the limiting factors of graphene-based environmental sensors, ***ACS Appl. Mater. Interfac.*** 12, 35, 39764–39771 **(2020)**

15. [3 citations] Plumadore R., Al Ezzi M., Adam S., Luican-Mayer A.* Graphene - Rhenium Disulfide vertical heterostructures visualized at the atomic scale, ***J. Appl. Phys.*** 128 (4), 044303 **(2020)**

16. [7 citations] Boddison-Chouinard J., Scarfe S., Watanabe K., Taniguchi T., Luican-Mayer A.* Flattening van der Waals heterostructure interfaces by local thermal treatment. ***Appl. Phys. Lett.*** 115, 231603 **(2019)**

17. [5 citations] Luican-Mayer A.*, Zhang Y., DiLullo A., Li Y., Fisher B., Ulloa S.E., Hla S.-W.* Negative Differential Resistance Observed on the Charge Density Wave of a Transition Metal Dichalcogenide. ***Nanoscale*** 11, 22351-22358 **(2019)**

18. [5 citations] Ramos S.L.L.M., Plumadore R., Boddison-Chouinard J., Hla S.-W., Guest J.R., Gosztola D., Pimenta M.A., Luican-Mayer A.* Suppression of the commensurate charge density wave phase in ultrathin 1T-TaS_2 evidenced by Raman hyperspectral analysis. ***Phys. Rev. B*** 100, 165414 **(2019)**

19. Stecher K., Huang S.H.-Y., Escorcio R., Luican-Mayer A.* Demonstrating the concepts of sheet resistance, field effect, and mobility of a semiconductor using graphene field effect transistors. ***Eur. J. Phys.*** 40, 065501 **(2019)**

20. Luican-Mayer, A.* A needle in a moiré stack. ***Nature Physics*** 15, 1107–1108 **(2019)**

21. [4 citations] Boddison-Chouinard, J., Plumadore, R., Luican-Mayer, A.* Fabricating van der Waals Heterostructures with Precise Rotational Alignment. ***J. Vis. Exp.*** 149, e59727 **(2019)**

22. [6 citations] Wu S., Luican-Mayer A., Bhattacharya A. Nanoscale Measurement of Nernst Effect in Two-dimensional Charge Density Wave Material 1T-TaS_2. ***Appl. Phys. Lett.*** 111, 223109 **(2017)**

23. [9 citations] Luican-Mayer A., Li G., Andrei E.Y. Atomic scale characterization of mismatched graphene layers. ***J. Electron Spectrosc. Relat. Phenom.*** 219, 92–98 **(2017)**

24. [29 citations] Luican-Mayer A., Barrios-Vargas J.E., Falkenberg J.T., Autès G., Cummings A.W., Soriano D., Li G., Brandbyge M., Yazyev O.V., Roche S., Andrei E.Y. Localized electronic states at grain boundaries on the surface of graphene and graphite. ***2D Mater.*** 3, 031005 **(2016)**

25. [34 citations] Lu C.-P., Rodriguez-Vega M., Li G., Luican-Mayer A., Watanabe K., Taniguchi T., Rossi E., Andrei E. Local, global, and nonlinear screening in twisted double-layer graphene. ***PNAS*** 113, 6623–6628 **(2016)**

26. [112 citations] Thoutam L.R., Wang Y.L., Xiao Z.L., Das S., Luican-Mayer A., Divan R., Crabtree G.W., Kwok W.K. Temperature-dependent three-dimensional anisotropy of the magnetoresistance in WTe_2, ***Phys. Rev. Lett.*** 115, 046602 **(2015)**

27. [116 citations] Wang Y.L., Thoutam L.R., Xiao Z.L., Hu J., Das S., Mao Z.Q., Wei J., Divan R., Luican-Mayer A., Crabtree G.W., Kwok W.K. Origin of the turn-on temperature behavior in WTe_2. ***Phys. Rev. B*** 92, 180402(R) **(2015)**

28. [79 citations] Luican-Mayer A., Kharitonov M., Li G., Lu C.-P., Skachko I., Goncalves A.M., Watanabe K., Taniguchi T., Andrei E.Y. Screening Charged Impurities and Lifting the Orbital Degeneracy in Graphene by Populating Landau Levels. ***Phys. Rev. Lett.*** 112, 036804 **(2014)** - *Editor's suggestion*

29. [54 citations] Li G., Luican-Mayer A., Abanin D., Levitov L., Andrei E.Y. Evolution of Landau levels into edge states in graphene. ***Nature Communications*** 4, 1744 **(2013)**

30. [643 citations] Luican A., Li G., Reina A., Kong J., Nair R., Novoselov K.S., Geim A.K., Andrei E.Y. Single-Layer Behavior and its Breakdown in Twisted Graphene Layers. ***Phys. Rev. Lett.*** 106, 126802 **(2011)**

31. [119 citations] Luican A., Li G., Andrei E.Y. Quantized Landau level spectrum and its density dependence in graphene. ***Phys. Rev. B*** 83, 041405(R) **(2011)** - *Editor's suggestion*

32. [40 citations] Li G., Luican A., Andrei E.Y. Self-navigation of a Scanning Tunneling Microscope tip toward a micron-size graphene sample. ***Rev. Sci. Instruments*** 82, 073701 **(2011)**

33. [38 citations] Skachko I., Du X., Duerr F., Luican A., Abanin D.A., Levitov L.S., Andrei E.Y. Fractional quantum Hall effect in suspended graphene probed with two-terminal measurements. ***Phil. Trans. R. Soc. A*** 368, 5403–5416 **(2010)**

34. [77 citations] Luican A., Li G., Andrei E.Y. Scanning Tunneling Microscopy and spectroscopy of graphene on layers on graphite. ***Solid State Commun.*** 149, 27–28 **(2009)**

35. [970 citations] Li G., Luican A., dos Santos J.M.B.L, Castro Neto A.H., Reina A., Kong J., Andrei E.Y. Observation of Van Hove singularities in twisted graphene layers. ***Nature Physics*** 6, 109–113 **(2009)**

36. [587 citations] Li G., Luican A., Andrei E.Y. Scanning tunneling spectroscopy of graphene on graphite. ***Phys. Rev. Lett.*** 102, 176804 **(2009)**

37. [5 citations] Li G., Luican A., Andrei E.Y. Electronic states on the surface of graphite. ***Physica B*** 404, 2673–2677 **(2009)**

38. [1044 citations] Du X., Skachko I., Duerr F., Luican A., Andrei E.Y. Fractional quantum Hall effect and insulating phase of Dirac electrons in graphene. ***Nature*** 462, 192–195 **(2009)**

39. [305 citations] Temirov R., Soubatch S., Luican A., Tautz F.S. Free-electron like dispersion in an organic monolayer film on a metal substrate. ***Nature*** 444, 350–353 **(2006)**

Book Chapter:

- Adina Luican-Mayer and Eva Y. Andrei, **Scanning Tunneling Microscopy and Spectroscopy studies of graphene**, in "Physics of Graphene", editors H. Aoki and M. S. Dresselhaus, Nanoscience and Technology Series Springer p. 28 (2014)

PRESENTATIONS

Invited

1.	MRS Spring meeting	San Francisco, USA	April 2023
2.	MRS Fall meeting	Boston, USA	October 2022
3.	Electronic Crystals ECRYS-2022	Corsica, France	August 2022
4.	"Quantum Materials Design by Stacking, Sliding and Twisting"	Tel Aviv, Israel	June 2022
5.	Spring 2022 INTRIQ meeting	Quebec, Canada	May 2022
6.	CAP Congress	Kingston, Canada	June 2022
7.	Physical Electronics, *Keynote (declined, conflict with CAP)*	Chicago, USA	June 2022
8.	UIC Electrical Engineering seminar	Chicago, USA	April 2022
9.	APS March Meeting	Chicago, USA	March 2022
10.	Quantum Materials and Devices Seminar at Harvard University	Boston, USA	Fall 2021
11.	Sherbrooke University	Sherbrooke, Canada	Fall 2021
12.	Graphene 2021	Grenoble, France	Fall 2021
13.	NanoCanada and Huawei workshop – keynote talk	Online	June 2021
14.	Canadian Assoc. Physicists Annual Congress	Online	June 2021
15.	238th Electrochemical Society Meeting	Online	July 2021
16.	International Winter School on Electronic Properties	Kirchberg, Austria/Online	August 2021
17.	GrapheneforUS	Online	Feb 2021
18.	Quantum Days Canada	Online	Jan 2021
19.	University of Washington nano-engineered systems seminar	Online	Jan 2021
20.	Oklahoma State University, *Colloquium*	Online	Jan. 2021
21.	ENGE 2020	Jeju, Korea/Online	Nov. 2020
22.	Graphene Canada	Online	Nov. 2020
23.	Canadian Assoc. Physicists Annual Congress **COVID19 cancelled**	Ontario, Canada	June 2020
24.	237th Electrochemical Society Meeting **COVID19 cancelled**	Montreal, Canada	May 2020
25.	Loyola University, *Colloquium*	Chicago, USA	Oct. 2019
26.	Clarkson University, *Colloquium*	New York, USA	Sept. 2019
27.	The Regroupement Québécois sur les Matériaux de Pointe	Quebec, Canada	July 2019
28.	Telluride Science Research Center, 2D Materials workshop	Telluride, USA	June 2019
29.	Aspen Center for Physics, Moiré Materials workshop	Aspen, USA	June 2019
30.	Canadian Society of Chemistry	Quebec, Canada	June 2019
31.	CIFAR Summer School	British Columbia, Canada	April 2019
32.	University of Waterloo, *Quantum Institute Colloquium*	Ontario, Canada	April 2019
33.	Carleton University, *Colloquium*	Ontario, Canada	April 2019
34.	Lehigh University, *Colloquium*	Pennsylvania, USA	February 2019
35.	2018 Schawlow-Townes *Symposium*	Ottawa, Canada	October 2018
36.	New Materials *Symposium*	Hangzhou, China	June 2018
37.	Canadian Ass. of Physicists lecture Université de Sherbrooke	Quebec, Canada	January 2017
38.	Canadian Ass. of Physicists lecture Bishop's University	Quebec, Canada	January 2017
39.	Canadian Ass. of Physicists lecture Laurentian University	Ontario, Canada	February 2017
40.	Canadian Ass. of Physicists lecture Lakehead University	Ontario, Canada	March 2017
41.	Canadian Ass. of Physicists lecture University of Manitoba	Manitoba, Canada	April 2017
42.	Canadian Ass. of Physicists lecture Brandon University	Manitoba, Canada	April 2017
43.	SCiMAN2016 *Symposium*	San Jose, Costa Rica	December 2016
44.	American Vacuum Society 63rd Symposium & Exhibition	Nashville, USA	Nov. 2016
45.	Concordia University, *Colloquium*	Montreal, Canada	October 2016
46.	Centre for Nanoscale Materials, Argonne, DOE Review	Argonne, USA	June 2016
47.	Canadian Association of Physicists	Ottawa, Canada	June 2016
48.	National Research Council, *Steacie Colloquium*	Ottawa, Canada	May 2016

49. SUNY Binghamton University, *Colloquium*	Binghamton, USA	April 2016
50. Drexel University, *Colloquium*	Philadelphia, USA	Nov. 2015
51. University of Notre Dame, *Seminar*	Notre Dame, USA	Sept. 2015
52. Northwestern University, *Colloquium*	Chicago, USA	March 2015
53. UC Riverside, *Seminar*	Riverside, USA	March 2015
54. Queens College CUNY, *Colloquium*	NYC, USA	February 2015
55. University of Wisconsin-Madison, *Colloquium*	Madison, USA	February 2015
56. IUPUI, *Colloquium*	Indianapolis, USA	February 2015
57. Iowa State University, *Colloquium*	Ames, USA	February 2015
58. CUNY, *Colloquium*	NYC, USA	February 2015
59. UC Merced, *Colloquium*	Merced, USA	February 2015
60. University of New Hampshire, *Colloquium*	Durham, USA	January 2015
61. University of Ottawa, *Colloquium*	Ottawa, Canada	January 2015
62. University of Washington, *Colloquium*	Seattle, USA	Nov.2014
63. Rutgers University, *Colloquium*	Piscataway, USA	Nov. 2014
64. UC Berkeley, *Seminar*	Berkeley, USA	August 2014
65. Experimental Techniques and Physics in Graphene Research	Bogota, Columbia	August 2014
66. NSS8 Workshop on Nanotechnology	Chicago, USA	July 2014
67. Northern Illinois University, *Colloquium*	DeKalb, USA	April 2014
68. University of Central Florida, *Seminar*	Orlando, USA	February 2014
69. University of California San Diego, *Seminar*	San Diego, USA	Nov. 2013
70. International Winterschool on Electronic Properties	Kirchberg, Austria	March 2013
71. APS March Meeting	Baltimore, USA	March 2013
72. Instituto de Ciencia de Materiales, *Seminar*	Madrid, Spain	Sept. 2012
73. European Material Research Society Fall Meeting	Warsaw, Poland	Sept. 2012
74. Center for Nanoscale Materials, *Colloquium*	Argonne, USA	January 2012
75. University of Aachen, *Seminar*	Aachen, Germany	January 2012
76. University of Delft, *Seminar*	Delft, Netherlands	January 2012
77. Gotham-Metro Condensed Matter Meeting	New York, USA	April 2010

Contributed

• European Materials Research Society Spring Meeting	May 2015
• APS March Meeting	March 2018, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008
• AVS Prairie Chapter Symposium	September 2014
• Symposium Laboratory of Surface Modification	March 2011
• AVS Symposium	October 2019
• MRS	May 2019
• ICN+T	May 2021

TEACHING

New courses developed

• PHY 8191 Low-dimensional Material Systems	Winter 2016
• PHY 2300 How Things Work / Physics of Everyday Life	Fall 2018
• PHY 8191 Graduate Seminar in Materials for Energy and Environment	Summer 2020

Standard courses

• PHY 1122 Fundamentals of Physics II (150-200 engineering, physics)	Winter 2017 - 2022
• PHY 3370 Introductory Quantum Mechanics	Fall 2019 - 2021

- PHY 3770 Introduction à la mécanique quantique Fall 2020, 2021

STUDENT SUPERVISION

Current

- **1 postdoctoral fellow**
  - Dr. Leena Agrawal
- **7 graduate students**
  - Antoine Labbé – MSc. student
  - Xueying Li – MSc. student
  - Ryan Plumadore – PhD student
  - Justin Boddison-Chouinard – PhD student
  - Laurent Molino – PhD. student
  - Chandler Bossaer – PhD. student, co-supervised with Dr. Giulio Vampa, NRC
  - Fathi Soussi - MSc. student, co-supervised with Prof. Hemmer, uOttawa
- **7 undergraduate students** – including Honors projects, NSERC fellow

Graduated

- **6 postdoctoral fellows**
  - Dr. Alex Bogan – co-supervised with Dr. Gaudreau at NRC
  - Dr. Jean-Michel Guay – co-supervised with Prof. Menard, Prof. Park at uOttawa
  - Dr. Ranjana Rautela – co-supervised with Prof. Menard, Prof. Park at uOttawa
  - Dr. Natalia Alzate
  - Dr. Jaewoo Park – co-supervised with Prof. Menard, uOttawa
  - Dr. Saher Hamid
- **4 graduate students**
  - Samantha Scarfe – MSc. co-supervised with Prof. Menard, MSc. Fall 2020
  - Ryan Plumadore – MSc. defended Fall 2018
  - Justin Boddison-Chouinard – MSc. defended Fall 2018
  - Sebastian Schaefer – exchange with Univ. Aachen, Germany, graduated MSc. Fall 2017
- **25+ undergraduate students** – including international exchange, COOP, Honors projects
- **1 engineer**
  - Eduardo Barrer

AWARDED FUNDING

Internal

Funding program	Project title	Total award amount (CAD)	Percentage for Dr. Luican-Mayer lab	Period of the award	Principle investigator(s)
Start-up fund		150,000	100%	2016-2021	PI
OVPR	STM 2D materials	2,000	100%	2018	PI
OVPR	Vacuum Pump	5,000	100%	2021	PI

External (active in blue)

Funding program	Project title	Total award amount (CAD)	Percentage for Dr. Luican-Mayer lab	Period of the award	Principle investigator(s)
Ontario Early Researcher Award	Exploring atomic-scale quantum states in 2D materials for quantum technologies	150,000	100%	2022-2027	PI
NRC High-Throughput & Secure Networks Challenge Program	Fabrication techniques of 2D material devices	503,800	50%	2021-2023	Co-PI with Dr. Gaudreau (NRC)
NRC Quantum Sensing Challenge Program	Polarisation-resolved single-photon sensors using quantum circuits in 2D materials	580,800	33%	2022-2025	Co-PI with Dr. Hawrylak and Dr. Gaudreau (NRC)
NSERC Discovery	Custom low dimensional materials explored from atom to bulk	144,000	100%	2016-2022	PI
	Quantum materials at the atomic scale	205,000	100%	2022-2027	PI
DND IDEaS – Phase 1a	Graphene-based multi modal adaptable thermal camouflage	160,000	100%	2020-2021	PI
DND IDEaS – Phase 1b	Sensitive detection and identification of airborne chemicals and biological agents	800,000	50%	2020-2021	Co-PI with Dr. Menard
DND IDEaS – Phase 1a	Sensitive detection and identification of airborne chemicals and biological agents	200,000	50%	2019-2020	Co-PI with Dr. Menard
NSERC SPG-P	Quantum circuits in 2D materials	890,000	33%	2018-2021	Co-PI with Dr. Hawrylak and Dr. Badolato

NSERC Engage	Development of flexible environmental sensors based on ultrathin 2D materials	25000	100%	2018	PI
CFI – JELF	UHV LT Scanning Tunnelling Microscope	768,000	100%	2018	PI
CFI – IF	Scanning Hall Probe Microscope	8,117,613	12%	2021	Co-PI with Dr. Szkopek, Dr. Cerruti, Dr. Bouilly, Dr. Gervais, Dr. Guo, Dr. Santano

PENDING FUNDING APPLICATIONS

- NSERC CREATE "Quantum Materials" LOI

SERVICE

University service

- Equity, Diversity, and Inclusion Committee 2020 –
- Physics Undergraduate Program Review Committee 2020 –
- Faculty Canada Research Chair Search Committee 2019
- Physics Department Chair Search Committee 2019
- Physics Colloquium Committee 2016 – 2017
- Faculty Curriculum Committee 2018 –
- Physics Department Curriculum Committee 2018 –
- Physics Department Outreach Committee 2019 –
- Thesis chair and evaluator for MSc. and PhD 2016 –

Professional service

- Chair-elect AVS Nanometer-Scale Science and Technology Division 2023
- International Scientific Committee (ISC) Graphene Canada 2021 2021
- Co-organizer "QC2DM" Workshop Ottawa 2019-2020
- Member of the AVS Nanometer-Scale Science and Technology Division board 2019-2021
- Program Committee International Conference on Nanoscience and Technology (ICN+T) 2020
- Program Committee 2D Materials Focus Topic (2D FT) AVS 67th Symposium 2020
- Evaluator M.Sc./M.Sc.A. in Nanoscience and Nanotechnology at Concordia University 2019
- Paper reviewer for *Science*, *Nature Physics*, *Physical Reviews Letters*, *Nature Communications*, *ACS Nano*, *Nano Letters*, *Solid State Communications*, *Science Advances*, *Applied Physics Letters*, *etc.*
- Organizing Committee, Canadian Association of Physicists Congress 2016

OUTREACH

- Canadian Association of Physicists online lecture tour – French lecture online 2021
- Soapbox Science Ottawa 2021
- Pint of Science public talk - **COVID19 postponed** 2020
- Cool Science Saturday/ Canada Science and Technology Museum 2020
- CBC Radio "The Element of Surprise" – Neon 2019
- Canadian Undergraduate Women in Physics conference – panelist 2019
- Ontario University Fair 2018, 2019
- Outreach talk to finalists of Canada science fair 2018
- Canadian Association of Physicists lecture tour 2017
- Colloquium and Eureka Lecture Coordinator, Department of Physics, uOttawa 2016
- Experimental demos at "Nanodays" at Longfellow Elementary School, Wheaton, IL 2015
- Keynote speaker at Naperville Central High School workshop for girls in STEM fields 2013