

**Maria (Masha) Kamenetska, PhD**

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**Education**

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- 2/2015-3/2017 **Yale University, New Haven, CT**  
**Postdoctoral Associate in Chemistry**  
 Advisor: Ziad Ganim (Chemistry); *Application of optical tweezers to spectroscopy*
- 1/2012-1/2015 **Yale University, New Haven, CT**  
**NSF Postdoctoral Fellow in Physics and Molecular Biophysics & Biochemistry**  
 Advisors: Simon Mochrie (Applied Physics) & Lynne Regan (Molecular Biophysics & Biochemistry);  
*Nucleosome unwinding dynamics with optical tweezers*
- 9/2006-2/2012 **Columbia University, New York, NY**  
**Ph. D. with distinction (Applied Physics)**  
 Advisor: Latha Venkataraman (Applied Physics, Chemistry); *Single molecule junction conductance and binding geometry*
- 9/2001-6/2005 **Massachusetts Institute of Technology, Cambridge, MA**  
**B.S. in Physics**, Concentration in Political Science  
 Advisor: Peter Fisher (Physics); *Modeling the effect of dark matter distribution on cosmic rays*

**Employment**

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- 7/2017-present **Assistant Professor of Chemistry**  
**Assistant Professor of Physics**  
**Assistant Professor of Material Science and Engineering, Boston University, Boston, MA**

**Honors & Awards**

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- 2022 **NSF CAREER Award**
- 2021 **Scialog: Chemical Machinery of the Cell Team Awardee, Research Corporation for Scientific Advancement (RCSA) & Gordon and Betty Moore Foundation**
- 2019-2021 **Scialog: Chemical Machinery of the Cell Fellow, RCSA & Gordon and Betty Moore Foundation**
- 2018 **Young Investigator Program Award (YIP), Air Force Office of Scientific Research**
- 2018 **Patricia McLellan Leavitt Research Fund Recipient, College of Arts and Science, BU**
- 2014 **Scientific Teaching Fellow, Yale University, Center for Teaching and Learning**
- 2013 **Postdoctoral Scholar Travel Fund Award, Yale University, School of Arts and Science**
- 2012 **Robert Simon Memorial Prize for Best PhD, Department of Applied Physics, Columbia University**
- 2011 **National Science Foundation Postdoctoral Fellowship in Biology**
- 2011 **Burroughs Welcome Fund Collaborative Research Travel Grant**
- 2010 **APS Ovshinsky Student Award, American Physical Society Division of Materials Physics, American Physical Society March 2010 Meeting**
- 2009 **Brookhaven National Lab NSLS/CFN Poster Session Winner**
- 2005 **MIT Peter J. Eloranta Summer Undergraduate Research Fellowship**
- 2005 **MIT Laya and Jerome B. Wiesner Student Award**

**Federal and Private Grants Awarded**


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<u>PI or co-PI</u>	<b><u>Over \$1.5 million total received</u></b>
2023	<b>Arrakis Therapeutics:</b> Determining thermodynamic properties of RNA structures in complex with small molecule binders; \$39,630, 6 months; single PI
2023	<b>NSF INTERN supplement:</b> supporting a graduate student's industry internship, \$51,995; single PI
2022	<b>NSF CAREER:</b> Probing and Manipulating Electronic and Spin Degrees of Freedom in Paramagnetic Single Molecule Circuits; \$650,000, 5 years; single PI
2022	<b>American Physical Society CUWiP grant:</b> Hosting the Conference for Undergraduate Women in Physics at Boston University in January 2023, \$17,500, 1 year, co-PI
2021	<b>Scialog 2021: Chemical Machinery of the Cell Award:</b> The Butterfly Effect in Cellular Phase Separation: from Molecular Interactions to Emergent Behavior; \$55,000, 1 year; PI
2021	<b>NSF Material Research Instrumentation (MRI):</b> Acquisition of a Universal Optical Tweezer Platform to Probe Nanoscale Structure and Function of Single Polymers Using Force and Optical Spectroscopy; \$255,850; PI with several co-PIs
2018	<b>Young Investigator Program Award (YIP),</b> Air Force Office of Scientific Research, Natural Materials Program; \$450,000, 3 years; single PI
<u>Before BU</u>	
2012	<b>NSF Postdoctoral Fellowship;</b> \$120,000, 2 years; single PI
<u>Core Faculty</u>	<b><u>\$2,999,999</u></b>
2023	<b>NSF Research Traineeship, NRT-URoL:</b> A Convergent Training Program on Biological Control; \$2,999,999; core participant

**Teaching**


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Fall 2022-23	<b>Instructor for CH 109,</b> Advanced General Chemistry with Quantitative Analysis lab (110 undergraduates), Department of Chemistry
Spring 2022-23	<b>Instructor for PY 571,</b> Introduction to Biological Physics (~10 students), Department of Physics; <u>designed new course curriculum with lab components on single molecule biophysics for advanced undergraduate/beginning graduate level</u>
Fall 2021	<b>Instructor for CH 111/CH 181,</b> Intensive General Chemistry with Quantitative Analysis lab (50 undergraduates), Department of Chemistry
Fall 2018-20	<b>Instructor for CH 651</b> Molecular Quantum Mechanics I (10 graduate students), Department of Chemistry
Fall 2017, Spring 2018-21	<b>Instructor for PY 313</b> Modern Physics, for engineering majors at the mid-undergraduate level (20-60 undergraduates), Department of Physics

**Trainees**


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<u>PhD granted (3)</u>	
2018-2024	<b>Brent Lawson, PhD</b> in Physics, May 2024
2019-2023	<b>Xiaoyun Pan, PhD</b> in Chemistry, December 2023
2018-2023	<b>Hannah Skipper, PhD</b> in Chemistry, September 2023 (co-advised with Linda Doerrer)
<u>PhD candidates (7)</u>	<b>Daniel Jackson, Chemistry</b> (2017-present, expected graduation May 2024); <b>Brian Dawes, Physics</b> (2018-present); <b>Favian Liu, Chemistry</b> (2021-present); <b>Zelin Miao, Material Science &amp; Engineering</b> (2021-present); <b>Sigifredo Luna, Chemistry</b> (2022-present); <b>Alona Maslennykov, Chemistry,</b> (2023-present); <b>Prateek Khatkar, Physics</b> (2023-present)

Masters (2)

2022-2024 **Hanil Chung, expected MS** in Chemistry, May 2024  
 2017-2019 **Xiaoyun Pan, MS** in Material Science & Engineering, May 2019

Undergraduate (14)

**Ahmad Hatim Hamdan**, BS in Chemistry 2018; **Andrea Rustad**, BS in Chemistry 2019; **Hiba Pedyakal**, BS in Chemistry 2019; **Connor Uzzo**, BS in Electrical Engineering 2019; **Lige Jiang** BS in Chemistry with Honors 2021; **Kate Matthews**, Physics REU 2021; **Vera Degtiareva**, BS in Physics 2022; **Alexander Krasnansky**, BS in Physics 2022; **Faisal Halabeya**, BS in Physics 2022; **Maitreya Rose**, BS in Physics 2023; **Darya Chaharom**, Physics class of 2024; **Hanil Chung**, Chemistry class of 2024; **Payton Harvill**, Physics class of 2026; **Martin Chujfi**, Chemistry & Physics class of 2024

High School & Interns (3)

**Nicholas Miller**, 2017-2019; **Amber Chow**, summer 2019; **Vi Pham**, summer 2018

PhD defense committee

**Ran Cheng, Han Zang, Melissa Burrows, Hikari Kitadai, Matthew Rotondaro, Sandy Zhang, Abigail Rendos (Chair), Qianyun Zhang (Chair), Carmen Gott, Stephanie Beach-Molony (Chair), Katherine Hansen (2<sup>nd</sup> reader), Min Xi, Ariel Hyre, Parth Shah, Clover Su (2<sup>nd</sup> reader)**

Student awards -PhD candidates

2023 **Zelin Miao, MSE: BUnano Fellowship**  
 2021 **Hannah Skipper, Chemistry (co-advised): DOE Office of Science Graduate Student Research (SCGSR) award**  
 2021 **Jiin So, Physics: BUnano Fellowship, (left the program)**  
 2019 **Hannah Skipper, Chemistry (co-advised): BUnano Fellowship**  
 2019 **Brian Dawes, Physics: student invitee to symposia of the Center for the Physics of Biological Function, Princeton, NJ**  
 2018 **Daniel Jackson, Chemistry: BUnano Fellowship**

-Undergraduate

2024 **Hanil Chung**, selected as student presenter to attend the 9<sup>th</sup> Annual Optical Science Winter School & Workshop, University of Arizona, Tucson, AZ in January 2024  
 2018-2021 **Andrea Rustad, Connor Uzzo, Lige Jiang, Maitreya Rose**, BU UROP awards  
 2019 **Andrea Rustad**, 3<sup>rd</sup> place poster award winner, *Scientista Symposium 2019*, Boston, MA

***Public and Professional service***Review Panels

2023-2024 **Ad hoc grant reviewer**, Division of Chemistry, NSF  
 2022-2023 **Panelist on 2 review panels**, Division of Chemistry, NSF  
 2023 **Ad hoc grant reviewer**, DOE  
 2020 **Ad hoc grant reviewer**, Division of Chemistry, NSF  
 2019 **Ad hoc grant reviewer**, Air Force Office of Science Research, DOE  
 2019 **Panelist for Graduate Research Fellowship program (GRFP)**, NSF

Conference

2023-2024 **Co-organizer: "Physical Chemistry of Molecular Electronics" symposium, ACS March 2024**  
 2022-2023 **Co-chair: Conference for Undergraduate Women in Physics (CUWiP)**, Boston University, January 2023, through a grant from the American Physical Society (APS)

Peer review

2017-present **Reviewer for:** Nature Communications, Nature Chemistry, Nano Letters, Cell-Matter, Journal of American Chemical society (JACS), Journal of Physical Chemistry Letters, Science Advances, Nanoscale, ACS Physical Chemistry AU, Chemical Science, and others

Undergraduate service

- 2021-2024 **CUWiP volunteer and panelist**  
 2021-present **Faculty mentor to the *Chemistry and Physics* major students**  
 2023 **Co-chair of the CUWiP conference at Boston University**  
 2019-2021 **Designer and implementer of the *Chemistry and Physics* undergraduate major, BU**

BU service

- CAS **Natural Sciences Taskforce member, 2020-2021**
- Chemistry **Admissions committee (2017-2018), Merit Review committee (x2), Open Search committee (2022-2023)**
- Physics **Admissions committee (2017-2019), Biophysics Seminar planning (2017-2018), Biophysics Search committee (2018-2019), Diversity Committee (2021-2024), Condensed Matter Experimental search (2023-2024), Quantum Initiative member (2023-2024)**
- MSE **Admissions committee (2017-2018)**
- BU nano **BU nano Center review presenter, May 2023**

Other outreach

- 2023 **Chemical Science Reviewer [Spotlight](#)**  
 2022 **Storyteller on [The Story Collider](#), Jamaica Plain, Boston MA**  
 2020 **Workshop participant, NSF Young Investigator Training, Division of Material Research**  
 2018-2019 **Women in Physics (WiP) Faculty Mentor, BU**

**Publications** \*undergraduate authors, mentees, †corresponding PI**Since beginning independent career at BU:**

12. D. Jackson, M. Rose\*, M. Kamenetska†; “Tunable Growth of a Single High-Density ZIF Nanoshell on a Gold Nanoparticle Isolated in an Optical Trap” *Nanoscale* **2024**, 16, 2591-2598
11. B. Lawson; H. E. Skipper; M. Kamenetska†; “Phenol Is a PH-Activated Linker to Gold: A Single Molecule Conductance Study” *Nanoscale* **2024**, 16, 2022-2029
10. X. Pan; K. Matthews\*; B. Lawson; M. Kamenetska†; “Single-Molecule Conductance of Intramolecular Hydrogen Bonding in Histamine on Gold,” *J. Phys. Chem. Lett.* **2023**, 14 (37), 8327–8333.
9. X. Pan; E. Montes; W. Y. Rojas, B.; Lawson, H.; Vazquez†, M. Kamenetska†, “Cooperative  $\pi$ -stacking promotes the formation of dimer molecular junctions with enhanced conductance,” *Nano Letters*, **2023**, 23 (15), 6937–6943
8. H. E. Skipper, B. Lawson, V. Degtiareva\*, M. Kamenetska†, “Manipulating Quantum Interference Between  $\sigma$  and  $\pi$  Orbitals in Single Molecule Junctions via Chemical Substitution and Environmental Control”, *ACS Nano*, **2023**, 17 (16), 16107–16114
7. D. Jackson, B. Dawes, M. Kamenetska†, “Simultaneous Force and Dark Field Measurements Reveal Solvent-Dependent Axial Control of Optically Trapped Gold Nanoparticles”, *J. Phys. Chem. Lett.*, **2023**, 2830–2836
6. X. Pan, C. Qian, A. Chow\*, L. Wang†, M. Kamenetska†, “Atomically precise binding conformations of adenine and its variants on gold using single molecule conductance signatures” *J. Chem. Phys.* **2022**, 157 (23), 234201; **featured on the cover**
5. Lawson, B., Zahl, P., M. S. Hybertsen†, M. Kamenetska†, “Formation and Evolution of Metallocene Single-Molecule Circuits with Direct Gold- $\pi$  Links”. *J. Am. Chem. Soc.*, **2021** 144, 6504–6515 .
4. H. E. Skipper, C. V. May\*, A. L. Rheingold, L. H. Doerr†, M. Kamenetska†, “Hard–Soft Chemistry Design Principles for Predictive Assembly of Single Molecule-Metal Junctions” *J. Am. Chem. Soc.*, **2021** 143, 16439–16447
3. J. McNeely, N. Miller\*, X. Pan, B. Lawson, M. Kamenetska†, “Conductance Rulers for Angstrom-Scale Distance Measurements.” *J. Phys. Chem. C*, **2020**, 124, 13427–13433

2. X. Pan, B. Lawson, A. M. Rustad\*, M. Kamenetska<sup>†</sup>, "pH-Activated Single Molecule Conductance and Binding Mechanism of Imidazole on Gold." *Nano Lett.*, **2020**, 20, 4687–4692
1. Y. Lin, T. Gao, X. Pan, M. Kamenetska, S. Thon<sup>†</sup>; "Local Defects in Colloidal Quantum Dot Thin Films Measured via Spatially-Resolved Multi-Modal Optoelectronic Spectroscopy." *Adv. Mater*, **2020**, 1906602

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**With postdoc mentor:**

1. Parobek, J. Black, M. Kamenetska, Z. Ganim<sup>†</sup>, "Force-Detected Nanoscale Absorption Spectroscopy in Water at Room Temperature Using an Optical Trap." *J. Chem. Phys*, **2018**, 148, 144201

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**In preparation:**

4. B. Lawson, E. Vidal, M. Haley<sup>†</sup>, M. Kamenetska<sup>†</sup>, "Topological insulator phase contributes to extreme anti-ohmic conductance enhancement in graphene-flake molecular junctions", *in preparation*
3. H.E. Skipper, B. Lawson, M. Kamenetska<sup>†</sup>, "Quasi-1D organo-metallic molecular chains assembled in single molecule junctions from metal-cyanide precursors", *in preparation*
2. Z. Miao, M. Kamenetska<sup>†</sup>, "Single-Molecule Conductance and Chain Formations in Triazole-Based Molecular Junctions", *in preparation*
1. B. Dawes, M. Kamenetska<sup>†</sup>, "Autoregressive hidden Markov models accurately capture single molecule folding dynamics in optical tweezer experiments", *in preparation*

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**Patents in preparation**

1. D. Jackson, M. Kamenetska, "3D Printing of Customizable Plasmonic Nanostructures", US patent

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**Before Boston University:**

20. J. Black, **M. Kamenetska**, Z. Ganim, "An Optical Tweezer Platform for Single Molecule Force Spectroscopy in Organic Solvents." *Nano Lett*, **17** (11) (2017)
19. **M. Kamenetska**, J. Widawsky, M. Dell'angela, M. Frei, L. Venkataraman; "Temperature Dependent Conductance of Single Molecule Junctions." *J. Chem. Phys*, 146, 092311, (2017)
18. DJ Schlingman, AH Mack, **M Kamenetska**, SGJ Mochrie, L Regan, "Routes to DNA Accessibility: Alternative Pathways to Nucleosome Unwinding." *Biophys J*, **107** (2) 384-392 (2014)
17. G. Kladnik, D. Cvetko, A. Batra, M. Dell'Angela, A. Cossaro, **M. Kamenetska**, L.Venkataraman, A. Morgante, "Ultrafast Charge Transfer through Noncovalent Au-N Interactions in Molecular Systems." *J. Phys. Chem. C*, **117**, 16477-16482, (2013)
16. AH Mack, DJ Schlingman, **M Kamenetska**, R Collins, L Regan, SGJ Mochrie, "The Molecular Yo-yo Method: Live Jump Detection Improves Throughput of Single-Molecule Force Spectroscopy for Out-of-Equilibrium Transitions." *Rev. Sci. Instrum*, **84**, 085119, (2013)
15. SGJ Mochrie, AH Mack, DJ Schlingman, R Collins, **M Kamenetska**, L Regan, "Unwinding and Rewinding the Nucleosome Inner Turn: Force Dependence of the Kinetic Rate Constants." *Phys Rev E*, **87** (1), 012710 (2013)
14. H. Vazquez, R. Skouta, S. Schneebeli, **M. Kamenetska**, R. Breslow, L. Venkataraman, MS. Hybertsen, "Probing the conductance superposition law in single-molecule circuits with parallel paths." *Nature Nanotech*, **7**, 663-667, (2012)
13. **M. Kamenetska.**; M. Dell' Angela; Widawsky, J.; Kladnik, G.; Verdini, A; Cossaro, A.; Modesti, S.; Cvetko, D.; Morgante, A.; Venkataraman, L., "Structure and Energy Level Alignment of Tetramethyl Benzenediamine on Au(111)." *J. Phys. Chem. C*, **111**, 12625-12630, (2011)
12. Meisner, J. S<sup>†</sup>; **Kamenetska, M.**<sup>†</sup>; Krikorian, M.; Sedbrook, D. F.; Steigerwald, M. L; Venkataraman, V.; Nuckolls, C., "Single Molecule Potentiometer." *Nano Letters*, **11**, 1575-1579, (2011). <sup>†</sup> **Both authors contributed equally**
11. Schneebeli, S.T.; **Kamenetska, M.**; Cheng, Z.; Skouta, R.; Friesner, R.A.; Venkataraman, L.; Breslow, R, "Single Molecule Conductance through multiple  $\pi$ - $\pi$  stacked benzene rings determined with direct electrode to benzene ring connections." *JACS*, **133** (7) 2136-2139 (2011).
10. Fatemi, V.\*; **Kamenetska, M.**; Neaton, J. B.; Venkataraman, L.; "Environmental Control of Molecular Scale Transport." *Nano Lett.* **11** (5), 1988-1992, (2011)

9. Schneebeli, S.; **Kamenetska, M.**; Foss, F.; Vazquez, H.; Skouta, R.; Hybertsen, M.; Venkataraman, L.; Breslow, R. "The Electrical Properties of Biphenylenes." *Organic Lett*, **12**, (18), 4114-4117 (2010)
8. **Kamenetska, M.**; Quek, S. Y.; Whalley, A. C.; Steigerwald, M. L.; Choi, H. J.; Louie, S. G.; Nuckolls, C.; Hybertsen, M. S.; Neaton, J. B.; Venkataraman, L. "Conductance and Geometry of Pyridine-Linked Single-Molecule Junctions." *JACS*, **132**, (19), 6817-6821, (2010).
7. Dell'Angela, M.; Kladnik, G.; Cossaro, A.; Verdini, A.; **Kamenetska, M.**; Tamblyn, I.; Quek, S. Y.; Neaton, J. B.; Cvetko, D.; Morgante, A.; Venkataraman, L. "Relating Energy Level Alignment and Amine-Linked Molecular Junction Conductance." *Nano Lett*, **10**, (7), 2470-2474 (2010).
6. Widawsky, J. R.; **Kamenetska, M.**; Klare, J.; Nuckolls, C.; Steigerwald, M. L.; Hybertsen, M. S.; Venkataraman, L., "Measurement of Voltage-Dependent Electronic Transport Across Amine-Linked Single-Molecular-Wire Junctions." *Nanotechnology*, **20**, (43) (2009).
5. **Kamenetska, M.**; Koentopp, M.; Whalley, A.; Park, Y. S.; Steigerwald, M.; Nuckolls, C.; Hybertsen, M.; Venkataraman, L. "Formation and Evolution of Single-Molecule Junctions." *Phys. Rev. Lett*, **102**, (12), 126803 (2009).
4. Park, Y.S.; Widawsky, J.R.; **Kamenetska, M.**; Steigerwald, M.L.; Hybertsen, M.S.; Nuckolls, C.; Venkataraman, L. "Frustrated Rotations in Single Molecule Junctions." *J. Am. Chem. Soc*, **131**, 10820-10821 (2009).
3. Quek, S. Y.; **Kamenetska, M.**; Steigerwald, M. L.; Choi, H. J.; Louie, S. G.; Hybertsen, M. S.; Neaton, J. B.; Venkataraman, L. "Mechanically Controlled Binary Conductance Switching in Single Molecule Junctions." *Nature Nanotech*, **4**, (4), 230-234 (2009).
2. Park, Y. S.; Whalley, A.; **Kamenetska, M.**; Steigerwald, M. L.; Hybertsen, M. S.; Nuckolls, C.; Venkataraman, L., "Contact Chemistry and Single-Molecule Conductance: A Comparison of Phosphines, Methyl Sulfides, and Amines, *J. Am. Chem. Soc*, **129**, (51), 15768-15769 (2007)
1. Evans, D. A.; Lee, J. C.; **Kamenetska, M.**; Gallagher, S. C.; Kraft, R. P; Hardcastle, M. J; Weaver, K.A., "Probing Unification with *Chandra* HETGS and *XMM-Newton* EPIC and RGS Spectroscopy of the Narrow Emission Line Galaxy NGC 2110." *Astrophysical Journal*, **653** (2), 1121-1128 (2006).

#### **Invited Conference Presentations**

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| 2024 | <b>American Chemical Society (ACS) National Meeting, March 2024</b> "Physical Chemistry of Molecular Electronics" symposium    |
| 2023 | <b>Telluride Workshop "Quantum Transport in Nanoscale Molecular Systems"</b> Telluride, CO                                     |
| 2023 | <b>Weizmann Institute Conference "Quantum transport in atomic and molecular conductors"</b> , Rehovot, Israel                  |
| 2023 | <b>Material Research Society (MRS) Spring 2023 meeting, "From molecules to molecular devices" symposium</b> , San Francisco CA |
| 2021 | <b>International Chemical Congress of Pacific Basin Societies, "Molecular Electronics" symposium</b> , virtual                 |
| 2021 | <b>IEEE 16<sup>th</sup> Nanotechnology Materials and Devices Conferences (NMDC)</b>  |
| 2021 | <b>American Chemical Society (ACS) National Meeting, "The Chemistry of Molecular Electronics" symposium</b>                    |
| 2020 | <b>(Bio)Molecular Electronics Colloquium</b> , Virtual Format  |
| 2019 | <b>Molecular Electro-Opto-Spintronics (SPICE) Workshop, Mainz, Germany</b>   |
| 2018 | <b>Gordon Research Conference, Single-Molecule Approaches to Biology</b>   |
| 2018 | <b>Gordon Research Conference Keynote Speaker</b> , Physics Research and Education Conference                                  |

#### **Invited Colloquia and Seminars**

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| 2024 | <b>Rowland Institute Seminar, Harvard University</b>                  |
| 2024 | <b>Chemistry Colloquium, Columbia University</b>                      |
| 2024 | <b>MIT.nano Seminar, Massachusetts Institute of Technology</b>        |
| 2024 | <b>Physical Chemistry Colloquium, University of California Irvine</b> |
| 2024 | <b>Chemistry Colloquium, University of Minnesota</b>                  |

2024 **Physical Chemistry Seminar, University of San Diego**  
2023 **Chemistry Colloquium, Johns Hopkins University**  
2023 **Physical Chemistry Seminar, University of Toronto, Canada**  
2022 **Inorganic Chemistry Seminar, Department of Chemistry, University of Southern California**  
2022 **Organic Chemistry Seminar, Department of Chemistry, University of California Riverside**  
2022 **Carnegie Mellon, Center for Nucleic Acids Science & Technology Colloquium**  
2021 **Center for Quantum Research and Technology, Department of Physics, The University of Oklahoma**  
  
2021 **Department of Physics, Tufts University**  
2021 **Department of Chemistry, Physical Chemistry Seminar, Rutgers University**  
2020 **20th Annual Sukant Tripathy Memorial Symposium, UMass Lowell**  
2019 **'Squishy Physics' Seminar Series, Harvard University, School of Engineering**  
2019 **UMass Dartmouth, Department of Chemistry**  
2019 **Photonics Forum, Boston University**  
2019 **University of Vermont, Department of Physics**  
2018 **Boston University, Division of Material Science and Engineering Seminar**  
2017 **Boston University, Department of Physics**  
2017 **Boston University, Departments of Chemistry and Physics**  
2014 **Williams College, Department of Physics**  
2009 **Leiden University, Leiden Institute of Physics, van der Molen Lab**  
2009 **Columbia University, NSF National Science and Engineering Center**

***Student Conference Presentations***

2024 **Brent Lawson, oral presentation, MRS Spring Meeting**  
2023 **Hannah Skipper, poster presentation, MRS Spring Meeting**  
2023 **Xiaoyun Pan, poster presentation, MRS Spring Meeting**  
2022 **Brian Dawes, oral presentation, APS March Meeting**  
2022 **Daniel Jackson, poster presentation, GRC, Noble Metal Nanoparticles**  
2022 **Daniel Jackson, oral presentation, ACS Spring Meeting**  
2021 **Brent Lawson, oral presentation, ACS Spring Meeting**  
2021 **Hannah Skipper, oral presentation, ACS Spring Meeting**  
2021 **Xiaoyun Pan, oral presentation, ACS Spring Meeting**  
2019 **Brent Lawson, oral presentation, APS March Meeting**  
2018 **Daniel Jackson, oral presentation, ACS Fall Meeting**  
2018 **Nicholas Miller, oral presentation, APS March Meeting**