Monika H. Schleier-Smith ***Curriculum Vitae***

CONTACT INFORMATION

Varian Physics Building
382 Via Pueblo Mall
Stanford, CA 94305

Tel.: (650) 497-3069
E-mail: schleier@stanford.edu
Web: sslab.stanford.edu

EDUCATION

Massachusetts Institute of Technology (Cambridge, Massachusetts) 2005 - 2011
Ph.D., Physics
Thesis: *Cavity-Enabled Spin Squeezing for a Quantum-Enhanced Atomic Clock*

Harvard University (Cambridge, Massachusetts) 2001 - 2005
A.B., *magna cum laude* with highest honors in Chemistry and Physics and Mathematics

EMPLOYMENT

Stanford University (Stanford, California) September, 2019 -
Associate Professor
Nina C. Crocker Faculty Scholar in the School of Humanities & Sciences 2019 - 2022

Stanford University (Stanford, California) September, 2013 - August, 2019
Assistant Professor

Max Planck Institute of Quantum Optics
& Ludwig Maximilian University (Munich, Germany) June, 2011 - August, 2013
Postdoctoral Fellow

HONORS & AWARDS

Benjamin Franklin NextGen Award	2023
American Physical Society (APS) Fellowship	2021
I. I. Rabi Prize in Atomic, Molecular, and Optical Physics	2021
MacArthur Foundation Fellowship	2020
President's Early Career Award for Scientists and Engineers (PECASE)	2019
Science News SN10: Scientists to Watch	2019
National Science Foundation Career Award	2018
Research Corporation Cottrell Scholar Award	2017
Hellman Faculty Scholar Award	2015
Alfred P. Sloan Research Fellowship	2014
Air Force Office of Scientific Research (AFOSR) Young Investigator Award	2014
Hertz Doctoral Thesis Prize	2011
Fannie and John Hertz Foundation Fellowship	2005 - 2010
National Science Foundation Graduate Research Fellowship	2005 - 2010
Phi Beta Kappa	2005

TEACHING AT STANFORD

Physics 23 (Undergraduate) Winter '24
Electricity, Magnetism, and Optics

Physics 14N (Undergraduate) Spring 2018, '20, '22; Winter '21
Quantum Information: Visions and Emerging Technologies

Applied Physics 203 (Graduate) Autumn 2019-21
Atoms, Fields, and Photons

Physics 170 (Undergraduate) Autumn 2015-17
Statistical Mechanics and Thermodynamics

Physics 107 (Undergraduate) Winter 2014-16
Intermediate Physics Laboratory II: Experimental Techniques and Data Analysis

Physics 190 (Undergraduate) Autumn 2014 - present
Independent Research and Study

Physics 290 (Graduate) Autumn 2014
Research Activities at Stanford

Professional service

Service to Journals

Reviewer for journals: *Physical Review Letters, Physical Review A, Physical Review X, Science, Nature, Nature Physics, Applied Physics Letters, Proceedings of the National Academy of Sciences*

Editorial board member: *PRX Quantum* 2019 - 2023

Service to Funding Agencies

Department of Energy High Energy Physics Advisory Panel (HEPAP) member 2023 - present

Reviewer for grant agencies: NSF, ARO, AFOSR, DOE, MacArthur Foundation, Austrian Academy of Sciences, Research Corporation, German Research Foundation (DFG)

Panelist for grant agencies: NSF, DOE

Leadership in the Academic Community

Kavli Institute for Theoretical Physics (KITP) Advisory Board Member 2023 - present

NSF Challenge Institute for Quantum Computing, advisory board member 2020 - present

APS Division of Atomic, Molecular, and Optical Physics (DAMOP), executive committee member 2020 - 2023

Fannie and John Hertz Foundation, early-career board member 2019 - 2022

Conference Organization

Aspen Summer Program on Programmable Quantum Matter, co-organizer 2022

Virtual AMO Seminar (VAMOS), co-founder and board member 2020 - 2021

Templeton Foundation Symposium on Horizons of Quantum Complexity, co-organizer 2020

Quantum Gravity in the Lab, organizing committee member 2019

KITP Program on Open Quantum System Dynamics: Quantum Simulators and Simulations Far From Equilibrium, scientific advisor 2019

Aspen Winter Conference on Many-Body Quantum Chaos, co-organizer 2019

CPAD Instrumentation Workshop for High-Energy Physics, co-convenor of sessions on quantum sensing 2018

Dynamics and Dissipation in Quantum Simulation Workshop, co-organizer 2018

APS DAMOP Meeting, program committee member 2017 - 2019

APS March Meeting, organizer of tutorial on Topological Physics with Cold Atoms 2017

Bay Area Cold Atom Meeting (BACAM), co-founder and co-organizer 2015 - present

Southwest Quantum Information and Technology (SQuInT) steering committee 2015 - present

CLEO QELS subcommittee for Quantum Optics of Atoms, Molecules, and Solids 2014 - 2016

University Service

Q-FARM (Stanford-SLAC quantum initiative), executive committee member 2019 - present

Academic Council Committee on Research (C-Res), member 2021 - 2022

Faculty Senate, member 2020 - 2022

Stanford Science Fellows, steering committee member 2019 - 2022

Stanford-SLAC Engagement Workgroup (SLEW), member 2021

Outreach

Stanford Program for Inspiring the Next Generation of Women in Physics, advisor 2021-present
Student-led virtual summer program on coding and physics for high-school girls.

Guest Speaker for Simons-NSBP Scholars Program 7/2022
Virtual talk on quantum science in summer research program for undergraduates.

Speaker at American Academy of Arts & Sciences (AAAS) Annual Meeting 2/2022
Panel on "Quantum for the People: Connecting Quantum Information Science & Society."

Featured Guest on Sean Carroll's Mindscape Podcast 12/2021
Interview for an episode on "Cold atoms and emergent spacetime."

Dear Doctor career panel, Black in Physics Week 10/2021
Virtual panel featuring career advice for Ph.D. students in physics

Heinz R. Pagels Public Lecture, Aspen Physics Center 8/2021
Virtual talk on Atoms and Photons: From Fundamental Physics to Quantum Technology.

Research Universities Alliance (RUA) Faculty Job Search Bootcamp, panelist 5/2021
Advice on faculty careers for postdocs in math, physical sciences, and engineering.

International Science and Engineering Fair (ISEF), panelist 5/2021
Excellence in Science and Technology Panel for high-school students worldwide.

National Public Radio Short Wave Podcast, featured guest 10/2020
Interview for an episode entitled "Quantum mechanics for beginners."

IBM Qiskit Global Summer School, panelist 7/2020
Virtual panel on careers in quantum computing for 5000 students worldwide.

International Science and Engineering Fair (ISEF), panelist 5/2020
Women in STEM Panel attended virtually by high-school students worldwide.

Rising Stars in Physics Workshop, chair of organizing committee 4/2019
Two-day career workshop for women postdocs.

APS Bridge & National Mentoring Community Conference, speaker 11/2018

Advice on academic careers and applying to graduate school.

APS Conference for Undergraduate Women in Physics (CUWiP), speaker 1/2018
Research talk targeted to undergraduates.

Rising Stars in Physics Workshop at MIT, panelist 11/2016
Career advice to women postdocs and senior graduate students.

Stanford Summer Research Program for Teachers, guest presentation 7/2018
Workshop on introducing concepts of quantum mechanics with hands-on optics activities

Panelist for Fannie & John Hertz Foundation Summer Workshop 2016
Advice to graduate students on pursuing an academic career.

Guest lecturer at Carleton College in a series on "What Physicists Do" 2016
Colloquium targeted to undergraduates and meeting with Women in Physics

Guest lecturer in MITRE Corporation Summer Student Program 2013
Introduced high-school students to topics of forefront research in quantum metrology

Publications & Preprints

E. S. Cooper, P. Kunkel, A. Periwal, and M. Schleier-Smith. "Graph states of atomic ensembles engineered by photon-mediated entanglement," *Nature Physics* (2024). `https://doi.org/10.1038/s41567-024-02407-1`

J. A. Hines, S. V. Rajagopal, G. L. Moreau, M. D. Wahrman, N. A. Lewis, O. Markovic, and M. Schleier-Smith. "Spin squeezing by Rydberg dressing in an array of atomic ensembles," *Phys. Rev. Lett.* **131**, 063401 (2023).

A. Rudelis, B. Hu, J. Sinclair, E. Bytyqi, A. Schwartzman, R. Brenes, T. K. Zhitomirsky, M. Schleier-Smith, and V. Vuletić. "Degradation of Ta_2O_5/SiO_2 dielectric cavity mirrors in ultra-high vacuum," *Optics Express* **31**, 39670–39680 (2023).

A. Periwal, E. S. Cooper, P. Kunkel, J. F. Wienand, E. J. Davis, and M. Schleier-Smith. "Programmable interactions and emergent geometry in an array of atom clouds," *Nature* **600**, 630-635 (2021).

G. Anikeeva, O. Markovic, V. Borish, J. A. Hines, S. V. Rajagopal, E. S. Cooper, A. Periwal, A. H. Safavi-Naeini, E. J. Davis, and M. Schleier-Smith. "Number partitioning with Grover's algorithm in central spin systems," *PRX Quantum* **2**, 020319 (2021).

E. Davis, A. Periwal, E. Cooper, G. Bentsen, S. Evered, K. Van Kirk, and M. Schleier-Smith. "Protecting spin coherence in a tunable Heisenberg model," *Phys. Rev. Lett.* **125**, 060402 (2020).

V. Borish, O. Marković, J. A. Hines, S. V. Rajagopal, and M. Schleier-Smith. "Transverse-field Ising dynamics in a Rydberg-dressed atomic gas," *Phys. Rev. Lett.* **124**, 063601 (2020).

G. Bentsen, I.-D. Potirniche, V. B. Bulchandani, T. Scaffidi, X. Cao, X.-L. Qi, M. Schleier-Smith, and E. Altman. "Integrable and chaotic dynamics of spins coupled to an optical cavity," *Phys. Rev. X* **9**, 041011 (2019).

G. Bentsen, T. Hashizume, A. Buyskikh, E. Davis, A. Daley, S. Gubser, and M. Schleier-Smith. "Tree-like interactions and fast scrambling with cold atoms," *Phys. Rev. Lett.* **123**, 130601 (2019). **Featured as *Editor's Suggestion***.

E. Davis, G. Bentsen, L. Homeier, T. Li, and M. Schleier-Smith. "Photon-mediated spin-exchange dynamics of spin-1 atoms," *Phys. Rev. Lett.* **122**, 010405 (2019). **Featured as *Editor's Suggestion***.

J. Marino, Y. Shchadilova, M. Schleier-Smith, and E. Demler. "Spectrum, Landau-Zener theory and driven-dissipative dynamics of a staircase of photons," *New J. Phys.* **21**, 013009 (2019).

X. Qi, E. Davis, A. Periwal, and M. Schleier-Smith. "Measuring operator size growth in quantum quench experiments," *arXiv:*1906.00524[quant-ph].

E. Davis, Z. Wang, A. Safavi-Naeini, and M. Schleier-Smith. "Painting non-classical states of spin or motion with shaped single photons," *Phys. Rev. Lett.* **121**, 123602 (2018).

I.-D. Potirniche, A. C. Potter, M. Schleier-Smith, A. Vishwanath, and N. Y. Yao. "Floquet symmetry-protected topological phases in cold atomic systems," *Phys. Rev. Lett.* **119**, 123601 (2017).

J. Borregaard, E. Davis, G. Bentsen, M. H. Schleier-Smith, and A. S. Sørensen. "One- and two-axis squeezing of atomic ensembles in optical cavities," *New J. Phys.* **19** 093021 (2017).

B. Swingle, G. Bentsen, M. Schleier-Smith, and P. Hayden. "Measuring the scrambling of quantum information," *Phys. Rev. A* **94**, 040302(R) (2016). **Selected as *50th Anniversary Milestone***.

T. Li, L. Duca, M. Reitter, F. Grusdt, E. Demler, M. Endres, M. Schleier-Smith, I. Bloch, and U. Schneider. "Bloch state tomography using Wilson lines," *Science* **352**, 1094 (2016).

E. Davis, G. Bentsen, and M. Schleier-Smith. "Approaching the Heisenberg limit without single-particle detection," *Phys. Rev. Lett.* **116**, 053601 (2016).

L. Duca, T. Li, M. Reitter, I. Bloch, M. Schleier-Smith, and U. Schneider. "An Aharonov-Bohm interferometer for determining Bloch band topology," *Science* **347**, 288 (2015). **Featured in *Perspective:* New SQUID on the Bloch**.

S. K. Baur, M. H. Schleier-Smith, and N. R. Cooper. "Dynamic optical superlattices with topological bands." *Phys. Rev. A* **89**, 051605(R) (2014).

R. P. McConnell, H. Zhang, S. Ćuk, J. Hu, M. H. Schleier-Smith, and V. Vuletić. "Generating entangled spin states for quantum metrology by single-photon detection." *Phys. Rev. A* **88**, 063802 (2013).

H. Zhang, R. P. McConnell, S. Cuk, Q. Lin, M. H. Schleier-Smith, I. D. Leroux, and V. Vuletić. "Collective state measurement of mesoscopic ensembles with single-atom resolution," *Phys. Rev. Lett.* **109**, 133603 (2012).

I. D. Leroux, M. H. Schleier-Smith, H. Zhang, and V. Vuletić. "Unitary cavity spin squeezing by quantum erasure," *Phys. Rev. A* **85**, 013803 (2012).

M. H. Schleier-Smith, I. D. Leroux, H. Zhang, M. A. Van Camp, and V. Vuletić. "Optomechanical cavity cooling of an atomic ensemble," *Phys. Rev. Lett.* **107**, 143005 (2011).

I. D. Leroux, M. H. Schleier-Smith, and V. Vuletić. "Orientation-dependent entanglement lifetime in a squeezed atomic clock," *Phys. Rev. Lett.* **104**, 250801 (2010). **Featured in *Physics* Focus: Atomic Clock Beats the Quantum Limit.**

I. D. Leroux, M. H. Schleier-Smith, and V. Vuletić. "Implementation of cavity squeezing of a collective atomic spin," *Phys. Rev. Lett.* **104**, 073602 (2010). **Featured as *Editor's Suggestion.***

M. H. Schleier-Smith, I. D. Leroux, and V. Vuletić. "Squeezing the collective spin of a dilute atomic ensemble by cavity feedback," *Phys. Rev. A* **81**, 021804(R) (2010).

M. H. Schleier-Smith, I. D. Leroux, and V. Vuletić. "States of an ensemble of two-level atoms with reduced quantum uncertainty," *Phys. Rev. Lett.* **104**, 073604 (2010).

M. Schnell, P. Lützow, J. van Veldhoven, H. Bethlem, J. Küpper, B. Friedrich, M. Schleier-Smith, H. Haak, and G. Meijer. "A linear AC trap for polar molecules in their ground state," *J. Phys. Chem. A* **111**, 7411-7419 (2007).

A. N. Kolmogorov, V. H. Crespi, M. H. Schleier-Smith, and J. C. Ellenbogen. "Nanotube-substrate interactions: distinguishing carbon nanotubes by the helical angle," *Phys. Rev. Lett.* **92**, 085503 (2004).

M. H. Schleier-Smith, L. D. van Buuren, J. M. Doyle, S. N. Dzhosyuk, D. M. Gilliam, C. E. H. Mattoni, D. N. McKinsey, L. Yang, and P. R. Huffman. "The production of nitrogen-13 by neutron capture in boron compounds," *Nucl. Instrum. Meth. B* **215**, 531-536 (2004).

Invited Papers

G. Bentsen, E. Davis, L. Homeier, A. Periwal, E. Cooper, K. van Kirk, and M. Schleier-Smith. "Photon-Mediated Spin Mixing Dynamics," *Proceedings of SPIE* **10934**, 109342P (2019).

E. Davis, G. Bentsen, T. Li, and M. Schleier-Smith. "Advantages of Interaction-Based Readout for Quantum Sensing," *Proceedings of SPIE* **10118**, 101180Z (2017).

H. Tanji-Suzuki, Ian D. Leroux, M. H. Schleier-Smith, M. Cetina, A. Grier, J. Simon, and V. Vuletić. "Interaction between Atomic Ensembles and Optical Resonators: Classical Description," *Adv. At. Mol. Opt. Phys.*, **60**, 201 (2011).

M. H. Schleier-Smith, I. D. Leroux, and V. Vuletić. "Preparation of reduced-quantum-uncertainty input states for an atomic clock," *Proceedings of SPIE* **7431**, 743107 (2009).

I. D. Leroux, M. H. Schleier-Smith, and V. Vuletić. "Producing squeezed input states for an atomic clock using an optical cavity," *Frequency Control Symposium, Joint with the 22nd European Frequency and Time Forum. IEEE International*, 220-225 (2009).

M. H. Schleier-Smith, I. D. Leroux, and V. Vuletić. "Spin squeezing on an atomic-clock transition," *Proceedings of the XXI International Conference on Atomic Physics*, 107 (2008).

Invited Commentary

M. Schleier-Smith. "Perspective: Solving a Puzzle with Atomic Qubits," *Science* **376**, 1155-1156 (2022).

P. Kunkel and M. Schleier-Smith. "News & Views: Measure in Circles," *Nature Physics* **18**, 124-125 (2022).

E. Altman *et al.*. "Quantum Simulators: Architectures and Opportunities," *PRX Quantum* **2**, 017003 (2021).

M. Schleier-Smith. "Perspective: Squeezing out higher precision," *Science* (2019).

M. Schleier-Smith. "News & Views: Probing information scrambling," *Nature Physics* (2017).

M. Schleier-Smith. "Editorial: Hybridizing quantum physics and engineering," editorial in *Phys. Rev. Lett.* **117**, 100001 (2016).

M. Schleier-Smith and H. Tanji-Suzuki. "Viewpoint: Pure photons for quantum communications," *Physics* **7**, 6 (2014).

Book Chapter

V. Vuletić, I. D. Leroux, and M. H. Schleier-Smith. "Microchip-based trapped-atom clocks," in *Atom Chips*, ed. J. Reichel and V. Vuletić, 265-282 (Weinheim, Germany: Wiley-VCH, 2011).

Patents

V. H. Crespi, A. N. Kolmogorov, J. C. Ellenbogen, and M. H. Schleier-Smith. Directed flow method and system for bulk separation of single-walled tubular fullerenes based on helicity (2008). U.S. Patent 7,347,981.

M. H. Schleier-Smith and J. C. Ellenbogen. The MITRE Corporation. Method for bulk separation of single-walled tubular fullerenes based on chirality (2003). U.S. Patent 6,669,918.

Invited Presentations

APS March Meeting, Minneapolis, MN	3/2024
ITAMP Workshop: Topological Phases and Strong Correlations in Many-Body Systems and Light-Matter Hybrids, Cambridge, MA	11/2023
KITP Conference on Frontiers of Quantum Metrology, Santa Barbara, CA	10/2023
CIFAR Quantum Information Science Program Meeting, Banff, Canada	10/2023
Gordon Conference on Quantum Control of Light and Matter, Newport, Rhode Island	8/2023
It from Qubit Conference, Perimeter Institute, Waterloo, Canada	7/2023
Conference on Lasers and Electro-Optics Europe (CLEO/Europe) & European Quantum Electronics Conference (EQEC), Munich, Germany	7/2023
Gordon Conference on Atomic Physics, Newport, Rhode Island	6/2023
ITAMP Workshop: Frontiers of Interacting Rydberg Atoms II, Cambridge, MA	6/2023
Simons Foundation Presidential Lecture, New York, NY	5/2023
Conference on Quantum Gases, Fundamental Interactions, and Cosmology, Pisa, Italy	10/2022
Purdue University AMO/QIS Seminar, West Lafayette, IN (virtual)	10/2022
CIFAR Quantum Information Science Program Meeting, Quebec City, Canada	9/2022
Quantum Extreme Universe from Quantum Information, Kyoto, Japan (virtual)	9/2022
International Conference on Atomic Physics, Toronto, Canada	7/2022
Conference on Quantum Systems and Technology, Monte Verità, Ascona, Switzerland	6/2022
Open System Control of Atomic and Photonic Matter, Bad Honnef, Germany	6/2022
University of Wisconsin Physics Colloquium, Madison, WI	4/2022
Princeton Quantum Colloquium, Princeton, NJ	3/2022
University of Maryland Physics Colloquium, College Park, MD	2/2022
SLAC Colloquium, Menlo Park, CA	1/2022
Optical Sciences Winter School, University of Arizona (virtual)	1/2022
Aspen Conference on Many-Body Cavity-QED, Aspen, CO	12/2021
Quantum Engineering: Fundamental Aspects to Applications, Lyon, France (virtual)	11/2021
Virtual AMO Seminar (virtual)	10/2021
CU Boulder Physics Colloquium, Boulder, CO	10/2021
University of Washington Physics Colloquium, Seattle, WA	10/2021
Chilloquium, Harvard Society for Physics Students (virtual)	9/2021
BEC Conference, Sant Feliu, Spain	9/2021
KITP Conference: Transport & Efficient Energy Conversion in Quantum Systems (virtual)	9/2021

Munich Center for Quantum Science and Technology (MCQST) Colloquium (virtual)	7/2021
Heraeus Seminar: Collective Effects and Non-Equilibrium Quantum Dynamics (virtual)	6/2021
TASI Summer School: Black Holes, Quantum Information, and Dualities (virtual)	6/2021
I. I. Rabi Prize Lecture, DAMOP Meeting of the American Physical Society (virtual)	6/2021
Perimeter Institute for Theoretical Physics Colloquium (virtual)	5/2021
Howard Schultz Prize Lecture, Yale University (virtual)	5/2021
UC Berkeley Physics Colloquium (virtual)	4/2021
Indiana University Physics Colloquium (virtual)	4/2021
Oklahoma University Physics Colloquium (virtual)	4/2021
Quantum Science Seminar (virtual)	4/2021
U. of Oregon Physics Colloquium (virtual)	2/2021
Royal Society Meeting: New Perspectives on Quantum Many-Body Chaos (virtual)	2/2021
California Institute of Technology Physics Colloquium (virtual)	1/2021
Heraeus Seminar: Exploring Quantum Many-Body Physics with Ultracold Atoms and Molecules (virtual)	12/2020
Workshop on Qubits and Black Holes, Institute for Advanced Study (virtual)	12/2020
Qiskit Quantum Information Science Seminar (virtual)	12/2020
QChaos 2020 Seminar, University of New Mexico (virtual)	11/2020
Princeton University Physics Colloquium (virtual)	11/2020
IOP International Quantum 2020 Conference (virtual)	10/2020
OSA Quantum 2.0 & FiO+LS Conferences (virtual)	9/2020
Workshop on Analog Computational Methods, U. of Pittsburgh (virtual)	8/2020
Online School on Ultra Quantum Matter, Perimeter Institute (virtual)	8/2020
Johannes Gutenberg University of Mainz QUANTUM Seminar (virtual)	6/2020
UC Davis Physics Colloquium (Frederica Darema Lecture), Davis, CA	3/2020
Minerva-Genter Symposium on Quantum Simulations, Tze'elim, Israel	2/2020
Israeli Physical Society Meeting, Rehovot, Israel	2/2020
U. of Heidelberg Center for Quantum Dynamics Colloquium, Heidelberg, Germany	1/2020
Cornell University Physics Colloquium (Krumhansl Lecture), Ithaca, NY	11/2019
Quantum Gravity in the Lab, Google X, Mountain View, CA	11/2019
Laboratoire Kastler Brossel (LKB) Seminar, Ecole Normale Supérieure, Paris, France	9/2019
Otto Stern Fest, Frankfurt, Germany	9/2019
Quantum Information and Quantum Gravity V, Davis, CA	8/2019
Many Facets of Non-Equilibrium Physics, Mazara del Vallo, Italy	7/2019
Quantum Metrology and Physics Beyond the Standard Model, Hannover, Germany	6/2019
DAMOP Meeting of the American Physical Society, Milwaukee, WI	5/2019
University of Nevada Physics Colloquium, Reno, NV	4/2019

April Meeting of the American Physical Society, Denver, CO	4/2019
March Meeting of the American Physical Society, Boston, MA	3/2019
Harvard Physics Colloquium, Cambridge, MA	2/2019
Emerging Directions & Opportunities in Quantum Science, Santa Barbara, CA	2/2019
Berkeley Statistical Mechanics Meeting, Berkeley, CA	1/2019
KITP Conference: Chaos and Order, Santa Barbara, CA	12/2018
Dynamics of Open Quantum Systems, Glasgow, UK	10/2018
UIUC Condensed Matter Seminar, Urbana-Champaign, IL	10/2018
U.S.-Japan Quantum Electronics and Laser Spectroscopy, Kanazawa, Japan	9/2018
Cambridge University AMOP Seminar, Cambridge, United Kingdom	9/2018
Correlations and Entanglement with Photons in Cavities, Chicheley Hall, U.K.	9/2018
Gordon Conference on Quantum Science, Stonehill, MA	8/2018
Quantum Fluids of Light and Matter, Les Houches, France	6/2018
MIT Physics Colloquium, Cambridge, MA	3/2018
Rice Physics Colloquium, Houston, TX	3/2018
U. of Michigan Physics Colloquium, Ann Arbor, MI	3/2018
Caltech Condensed Matter Physics Seminar, Pasadena, CA	1/2018
University of New Mexico Physics Colloquium, Albuquerque, NM	1/2018
Joint Quantum Institute (JQI) Seminar, College Park, MD	11/2017
ITAMP Workshop on Many-Body Cavity QED, Cambridge, MA	10/2017
Quantum Sensing with Quantum Correlated Systems, Dresden, Germany	9/2017
BEC Conference, Sant Feliu, Spain	9/2017
Physics Next: from Quantum Fields to Condensed Matter, Riverside, NY	8/2017
ICTS Program on Open Quantum Systems, Bangalore, India	7/2017
PRACQSYS, Seattle, WA	7/2017
Frontiers in Emergent Quantum Phenomena, New York, NY	7/2017
APS DAMOP Meeting, Sacramento, CA	6/2017
James Franck Institute Seminar, University of Chicago, IL	4/2017
Frontiers in Quantum Coherent Science, Berkeley, CA	1/2017
KITP Conference on Designer Quantum Systems Out of Equilibrium, Santa Barbara, CA	11/2016
KITP Program on Synthetic Quantum Matter, Santa Barbara, CA	9/2016
ITAMP Workshop on Laboratory Cosmology, Cambridge, MA	9/2016
Dynamics of Open Quantum Systems, Glasgow, Scotland, UK	9/2016
March Meeting of the American Physical Society, Baltimore, MD	3/2016
Gordon Conference on Mechanical Systems in the Quantum Regime, Ventura Beach, CA	3/2016

Fundamental Bounds on Quantum Dynamics, Stanford, CA	10/2015
KITP Conference on Non-Equilibrium Dynamics of Strongly Interacting Photons, Santa Barbara, CA	10/2015
Gordon Conference on Atomic Physics, Newport, RI	6/2015
Heraeus-Seminar on Continuous-Variable Entanglement in Atomic Systems, Bad Honnef, Germany	5/2015
Harvard-MIT Center for Ultracold Atoms, Cambridge, Massachusetts	4/2015
Conference on Non-Equilibrium Quantum Matter, Aspen, Colorado	3/2015
Southwest Quantum Information Network (SQuInT), Berkeley, California	2/2015
Heraeus-Seminar on Designed Quantum States of Matter, Bad Honnef, Germany	12/2014
Niels Bohr Institute, University of Copenhagen, Denmark	12/2014
Nano- and Quantum Physics Seminar, University of Basel, Switzerland	12/2013
International Conference on Laser Spectroscopy (ICOLS), Berkeley, California	6/2013
Quantum Optics Seminar, Universität des Saarlandes, Saarbrücken, Germany	3/2013
DAMOP Meeting of the American Physical Society, Orange County, California	6/2012
Molecular Physics Seminar, Fritz Haber Institute of the Max Planck Society, Berlin	5/2012
Laboratoire Kastler Brossel (LKB) Seminar, Ecole Normale Supérieure, Paris	3/2012
Quantum Optics of Micro- and Nanomechanical Systems, Monte Verita, Switzerland	7/2011
Young Atom Opticians School, Leibniz-Universität Hannover, Germany	2/2011
Cavity-Mediated Molecular Cooling (CMMC) Meeting, Herrsching, Germany	3/2010