

MAKO E. HARUTA

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College of Arts and Sciences
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EDUCATION Ph.D. in Mathematics, Boston University, Boston, MA, May 1992
M.A. in Mathematics, Boston University, Boston, MA, May 1988
A.B. in Mathematics, Smith College, Northampton, MA, May 1984

EXPERIENCE *Professor of Mathematics*, University of Hartford, West Hartford, CT, 2020-present.
Associate Professor of Mathematics, University of Hartford, West Hartford, CT, 1998-2020.
Assistant Professor of Mathematics, University of Hartford, West Hartford, CT, 1992-1998.
Mathematics Teacher, Buckingham Browne & Nichols Upper School, Cambridge, MA, 1988-1992.

ACADEMIC
POSITIONS *Chair*, Department of Mathematics and Department of Physics, Fall 2016-2020.
Associate Chair, Department of Mathematics and Department of Physics, 2015/2016.
Chair, Mathematics FTTT Search Committee (two position search) 2015/2016.
Co-Chair, Mathematics FTTT Search Committee, 2007/2008, 2010/2011.
Campus Director, University of Hartford, NASA Connecticut Space Grant College Consortium, 1999-2011.
Director, Supplemental Instruction (SI) Pilot Program, 1995-1997.

AWARDS • University of Hartford Award for Innovations in Teaching and Learning, for Flipping the Classroom for Calculus I. Mako Haruta, Jean McGivney-Burelle, Ben Pollina, Larissa Schroeder and Fei Xue, Sep 2014.
• Department of Mathematics Calculus program identified as one of the seventeen most successful in the United States, ranked in top 1 percent in the country. National Science Foundation funded study, Characteristics of Successful Programs in College Calculus (CSPCC, NSF DRL REESE 0910240), of U.S. college and university Calculus I courses, conducted by the Mathematical Association of America (MAA), 2012.

RESEARCH
AREAS Scholarship of Teaching and Learning (SoTL) in Mathematics, Flipping Calculus, Teaching of Calculus, Mathematics Teaching of Gifted and Talented Youth, Teaching with Technology, Complex Dynamical Systems

PUBLICATIONS • “A Department’s Commitment to Gender Inclusivity,” M. E. Haruta. *MAA Focus: The Newsletter of the Mathematical Association of America*, February/March 2019, pp. 42-43.
<https://www.maa.org/press/periodicals/maa-focus>

- “Collaborate and Innovate: One Department’s Perspective on Factors Supporting and Sustaining Pedagogical Change in Calculus I,” L. B. Schroeder, J. McGivney-Burelle, M. E. Haruta, F. Xue. *Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS)*, Volume 28, 2018 - Issue 6: Improving the Teaching and Learning of Calculus, p.574-586, 2018.
<https://www.tandfonline.com/doi/full/10.1080/10511970.2017.1388318>
- Mathematics Curriculum materials (2 units) for Connecticut Core standards courses, Algebra II/Trigonometry contributor. “Part 3. How does the Pythagorean tuning compare with the way we tune a piano today?” from Activity “Performance Task: Musical Notes. What Sounds Pleasing to Your Ear?” and “Activity 6.5.5 Constructive and Destructive Interference,” M. Haruta. Central Connecticut State University (CCSU), Connecticut State Department of Education grant-funded project, Jan 2015.
http://ctcorestandards.org/?page_id=1025
- “Flipping Calculus Website” open resource materials for a complete Calculus I flipped course, including videos, in-class problem sets, quick quiz assessments, and clicker questions. J. Williams, J. McGivney-Burelle, L. Schroeder, M. Haruta, F. Xue, B. Pollina, 2013.
<http://math.hartford.edu/flipping/>
- “Simulating the Research Process with Elementary Students,” M. E. Haruta, *EDULEARN12 Proceedings of the 4th International Conference on Education and New Learning Technologies*. Barcelona, Spain. International Association of Technology, Education and Development (IATED), pp. 2551-2557, Jul 2012.
<https://library.iated.org/view/HARUTA2012SIM>
- “Good Test Problems for Calculus Courses that Require the TI-89 Graphing Calculator,” M. E. Haruta, *Proceedings of the International Conference on Technology in Collegiate Mathematics (ICTCM)*, May 2010.
<http://archives.math.utk.edu/ICTCM/i/22/S061.html>
- “An Overview of a Decade of WeBWoRK Use in Precalculus and Calculus,” M. E. Haruta, *Proceedings of the International Conference on Technology in Collegiate Mathematics (ICTCM)*, May 2010.
<http://archives.math.utk.edu/ICTCM/i/22/S029.html>
- “Bringing Sequences to Life: Applications to Music and Credit Card Debt Using the TI-84 Plus, the Internet and Group Work,” M. E. Haruta, *EDULEARN09 International Conference on Education and New Learning Technologies Proceedings*, Jul 2009.
<https://library.iated.org/view/HARUTA2009BRI>
- “A General Chemistry and Precalculus First-Year Interest Group (FIG): Effect on Retention, Skills, and Attitudes,” *Journal of Chemical Education*, with L. E. Pence, H. J. Workman, M. E. Haruta, Jan 2005, Vol. 82, No. 1, pp. 65-69.
<http://pubs.acs.org/doi/abs/10.1021/ed082p65#supplement>
- “A Data-Oriented Business Calculus Course,” M. Turpin, R. McGivney, M. Haruta, *The Connecticut Mathematics Journal*, Winter 1999, 29-36.
- “Newton’s Method on the Complex Exponential Function,” M. E. Haruta, *Transactions of the American Mathematical Society*, Volume 351, Number 6, Jun 1999, 2499-2513.
<http://www.ams.org/journal-getitem?pii=S0002-9947-99-01927-3>
- “Towards a New Precalculus,” M. Haruta, M. Turpin, R. McGivney, *The American Mathematical Association of Two Year Colleges Review (AMATYC)*, Spring 1998, 26-34.
<http://www.amatyc.org/?page=AMATYCReview>

- “Coin Tossing,” M. E. Haruta, M. Flaherty, J. McGivney, R. J. McGivney, *Mathematics Teacher*, National Council of Teachers of Mathematics (NCTM), Volume 89 Number 8, Nov 1996, 643-645.
<https://www.jstor.org/stable/27969964>
- “The Calculator Based Laboratory (CBL): An Initial Report,” M. Flaherty, J. McGivney, M. Haruta, R. McGivney, *The Connecticut Mathematics Journal*, Spring 1995, 26-32.
- “On the Limit Functions of Iterates in Wandering Domains,” W. Bergweiler, M. Haruta, M.-G. Meier, N. Terplane, H. Kriete, *Annales Academiae Scientiarum Fennicae*, Series A. I. Mathematica, Volumen 18, 1993, 369-375.
<http://www.acadsci.fi/mathematica/Vol18/bergweil.pdf>

PAPERS IN PROGRESS

- “Collaborative Solutions in Calculus: How Co-Writing and Co-Editing Increase Student Self-Efficacy and Communication Skills,” with L. Schroeder. SoTL project data gathered, manuscript in progress.
- “Starting the Scholarship of Teaching and Learning (SoTL) as a Mathematician,” manuscript in progress.

MAJOR GRANTS

- “Supporting and Sustaining Scholarly Mathematical Teaching,” National Science Foundation (NSF) Improving Undergraduate STEM Education (USE) NSF:IUSE #1725952, L. Schroeder (PI), M. E. Haruta (co-PI), J. McGivney-Burelle (co-PI), D. Miller (co-PI), F. Xue (co-PI), 2017-2020. (\$583,525)
https://www.nsf.gov/awardsearch/showAward?AWD_ID=1725952
<https://www.sotlhartford.com/>
- “Flipping Calculus,” J. K. Williams (PI), M. E. Haruta (co-PI), J. McGivney-Burelle (co-PI), L. Schroeder (co-PI), and Senior Personnel F. Xue, B. Pollina. NSF, Division of Undergraduate Education (DUE) Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics (TUES) NSF:DUE-TUES #1245059, 2013-2015. (\$179,136)
https://www.nsf.gov/awardsearch/showAward?AWD_ID=1245059
<http://math.hartford.edu/flipping/>
- “Changing Classroom Culture: Using Technology to Improve Engagement, Retention and Success in Mathematics,” M. Haruta, J. McDonald, J. McGivney-Burelle, L. Schroeder, J. Williams. Creation of Flipped Classroom renovated with café-style/flexible collaborative seating, multiple projection units, Apple TV for use with classroom iPad sets. University of Hartford Provost Technology Grant, Apr 2012. (\$197,000).
- “Institution-Wide Reform of Undergraduate Education in Science, Mathematics, Engineering, and Technology,” M. E. Haruta (PI), C. Stevenson (co-PI), NSF:DUE #9652161. Cross-college faculty collaboration and teaching innovations, and the conceptualization of the University of Hartford Faculty Center for Learning Development (FCLD), 1996-1998. (\$179,987)
https://www.nsf.gov/awardsearch/showAward?AWD_ID=9652161.

INVITED & PEER REVIEWED PRESENTATIONS (Recent)

- “Increasing the Scholarship of Teaching and Learning in Mathematics through Inter-College Faculty Communities,” virtually with J. McGivney-Burelle. Ireland International Conference on Education (IICE), Dublin, Ireland, Oct 2020.
- “Supporting and Sustaining Scholarly Mathematical Teaching,” with F. Xue, L. Schroeder, and J. McGivney-Burelle, presented by F. Xue. The 14th International

Congress on Mathematical Education (quadrennial), Shanghai, China. July, 2020 postponed to July 2021 due to COVID-19.

- “S3MT: Supporting and Sustaining Scholarly Mathematics Teaching, Preliminary Report,” with J. McGivney-Burelle, L. Schroeder, and F. Xue. Presented by J. McGivney-Burelle, Joint Mathematics Meetings (JMM) 2020, Denver, CO, Jan 2020.
- *Supporting and Sustaining Scholarly Mathematics Teaching*, M. Haruta, J. McGivney-Burelle, D. Miller, L. Schroeder, F. Xue. Presented by D. Miller and L. Schroeder. Mathematical Association of America (MAA) Poster Session of Projects Supported by the National Science Foundation Division of Undergraduate Education (NSF:DUE). 2014 American Mathematical Society (AMS)/Mathematical Association of America (MAA) Joint Mathematics Meetings (JMM), Baltimore, MD, Jan 2019.
- *Flipping Calculus: Increasing Student Engagement and Success*, with F. Xue, and J. McGivney-Burelle, Colloquium Series, Department of Mathematics and Statistics, Georgetown University, Sep 2016.
- *Flipping Calculus, A New Teaching Model: Increasing Student Engagement and Success*, M. Haruta, L. Schroeder, F. Xue. Presented by M. Haruta at Flipped Learning Technologies (F.L.I.T.) Research Group meeting. Interfaculty Initiative in Information Studies, Fukutake Hall, University of Tokyo, Tokyo, Japan, Aug 2016.
- *Flipping Calculus: Classrooms circa 2016 vs. circa 1996*, with F. Xue, New England Mathematics Association of Two Year Colleges (NEMATYC) Spring 2016 Conference, West Barnstable, MA. Apr 2016.
- *Increasing Student Engagement and Success in First-year Calculus*, with J. McGivney-Burelle. Envisioning the Future of Undergraduate STEM Education (EnFUSE): Research and Practice conference, National Science Foundation (NSF), Washington, D.C. Apr 2016.
- *Flipping Calculus*, with J. McGivney-Burelle, L. Schroeder, F. Xue. Flipping the Classroom conference, sponsored by the University of Hartford and the Davis Family Education Foundation. University of Hartford, West Hartford, CT. Mar 2016.
- *Flipping and Landing on Your Feet*, with L. Schroeder. Department of Mathematics, College of the Holy Cross, Worcester, MA, Mar 2015.
- *Flipping Calculus at the University of Hartford*, with J. Williams, J. McGivney-Burelle, B. Pollina, L. Schroeder, F. Xue. Mathematical Association of America (MAA) Poster Session of Projects Supported by the National Science Foundation Division of Undergraduate Education (NSF:DUE). 2014 American Mathematical Society (AMS)/Mathematical Association of America (MAA) Joint Mathematics Meetings (JMM), Baltimore, MD, Jan 2014.
- *iPads in the Classroom: A Departmental Project at the University of Hartford*. Mathematical Association of America (MAA) MathFest. Hartford, CT. Aug 2013.
- *Flipping Calculus*, written with and presented by J. McGivney-Burelle, L. Schroeder. National Council for Teachers of Mathematics (NCTM) National Meeting and Exposition. Denver, CO. Apr 2013.
- *Using iPads for Presenting and Teaching in the Classroom*, Faculty Center for Learning Development (FCLD) iPad Circle presentation, Mar 2013.
- Envisioning the Future of Undergraduate STEM Education: Research and Practice, American Association for the Advancement of Science (AAAS) and the National Science Foundation(NSF) Division of Undergraduate Education, Washington, DC. Apr 2016. <http://www.enfustem.org/>

INVITED
CONFERENCES

- Council on Undergraduate Research CUR Dialogues 2011 Conference, Feb 24-26 in Washington D.C. "Proficient but not college ready: How can English and mathematics pedagogy bridge the gap?" A Seminar of the Woodrow Wilson National Fellowship Foundation's Early College Initiative. Princeton, NJ, Oct 2009.
- National Science Foundation (NSF) Grant Writing Conference, Columbia University, New York, NY, 2003.
- National Science Foundation (NSF) "Shaping the Future" Institutional-wide Reform Conference, NSF, Washington D.C., 1996.
- National Science Foundation Planning Meeting for "Shaping the Future" Institutional-wide Reform Conference, NSF, Washington D.C., 1996.
- Newton's Method Seminar, with W. Bergweiler et al, Mathematisches Forschungsinstitut, Oberwolfach (MFO, Oberwolfach Research Institute for Mathematics) international research centre in Oberwolfach, Germany, 1992.
<https://www.mfo.de/>

WORKSHOPS & CONFERENCES

- Organizer and Presenter, 4-day Grant Participants' Summer Workshop Year II. "Supporting and Sustaining Scholarly Mathematical Teaching," National Science Foundation NSF:IUSE 1725952, Co-PI with L. Schroeder (PI), and co-PIs J. McGivney-Burelle, and F. Xue. University of Hartford, West Hartford, CT. Scheduled for July 2020, postponed due to COVID-19 to Jul 2022.
- Webinar Leader, Monthly Webinars of "Supporting and Sustaining Scholarly Mathematics Teaching," National Science Foundation grant NSF:IUSE 1725952. co-PI with L. Schroeder (PI), and co-PIs J. McGivney-Burelle, F. Xue. University of Hartford, West Hartford, CT, 2018-2021.
- Organizer and Presenter, 4-day Grant Participants' Summer Workshop Year I, II. "Supporting and Sustaining Scholarly Mathematical Teaching," National Science Foundation NSF:IUSE 1725952, Co-PI with L. Schroeder (PI), and co-PIs J. McGivney-Burelle, and F. Xue. University of Hartford, West Hartford, CT, Jul 2018, 2019.
- "Chaos, Fractals and Dynamics in the Mathematics Curriculum," professional development two-day workshop for full-time faculty of Mathematics Department, Manchester Community College, Manchester, CT, 1998.
- Director, Summer Faculty Workshop for "Institution-Wide Reform of Undergraduate Education in Science, Mathematics, Engineering, and Technology," PI, with C. Stevenson (Co-PI), National Science Foundation, NSF DUE: 9652161, 1997.
https://www.nsf.gov/awardsearch/showAward?AWD_ID=9652161
- Director, Summer Faculty Workshop for "Institution-Wide Reform of Undergraduate Education in Science, Mathematics, Engineering, and Technology," PI, with C. Stevenson (Co-PI), National Science Foundation, NSF DUE: 9652161, 1996.
https://www.nsf.gov/awardsearch/showAward?AWD_ID=9652161

GRANT AND PROGRAM REVIEWS

- External Reviewer, Academic Program Review for Department of Mathematics, Westminster School, with J. McGivney-Burelle, Simsbury, CT, Apr 2017.
- External Reviewer, Departmental Academic Program Review for Department of Mathematics, Eastern Connecticut State University, Nov 2014.
- External Reviewer, Academic Program Review for The Department of Mathematics, Manchester Community College, with S. Bragg, Senior Vice President of Academic Affairs, Borough of Manhattan Community College, Mar 2003.

- Grant Proposal Review Panel Member, Institution-Wide Reform of Undergraduate Education in Science, Mathematics, Engineering and Technology program, National Science Foundation (NSF) Directorate for Education and Human Resources, Washington, D.C., Jul 1996.

K-12 EDUCATION
& TEACHER
TRAINING

- Keynote Speaker at MATHCOUNTS® States and Chapter level competitions for Connecticut and Hartford, national middle school mathematics competition, University of Hartford, Hartford, CT. Spring 2014, 2017 (attendance:200).
- *Flipping the Classroom: Strategies, Successes and Challenges*, M. Haruta, E. Gray, R. Desmond. Center for Teaching Excellence and Innovation (CTEI) Learn@Lunch session, University of Hartford. Mar 2017.
- *Number Patterns and Problem Solving*. Afternoon Program of interactive discovery and lecture to parents and students (attendance:230) Workshop for Mathematically Gifted Students, at R. L. Devaney's 2014-2015 Odyssey Series in Mathematics (grades 7-10) Family Academic Program, Johns Hopkins University Center for Talented Youth, Boston University, Boston, MA. Nov 2009, 2012, 2015.
- Creator & Instructor, gifted mathematics curriculum and after-school program:
 - (1) "Friday Math Group," Fall 2006 - Spring 2007, Fall 2007 - Spring 2008. "Summer Math Group," Summer 2007. After-school and summer program for mathematically gifted 5th-6th graders replicating the process of mathematics research.
 - (2) Friday Math Group Student Seminar conference-style presentation, University of Hartford, Jun 2007.
- "Discrete Mathematics for Gifted Second Graders," 4 lessons, Squadron Line Elementary School, Simsbury, CT, Spring 2002.
- Workshop Leader, "MATH T.E.A.M. (Technology, Exploitation, Applications, Models)" for 9th and 10th grade students from the Hartford Public Schools. A residential two-week program of math investigations, off-campus field trips and evening programs. Director and grant PI, R. McGivney. University of Hartford, Session I: Summer 1999.
- Co-Leader, "Integrating Data and Labs into the High School Mathematics Curriculum," professional development workshops for Waterbury Middle and High Schools Faculty Development program, M. Haruta (University of Hartford), P. Alim (Cheshire High School), K Bavelas (Manchester Community College), R. Griffin (Crosby High School) Waterbury, CT, Aug 1997.
- Co-Leader, National Science Foundation (NSF) funded Precalculus Teachers' Workshop of "University of Hartford Summer Workshops in Mathematics," with J. Williams (PI) Hartford, CT, 1995.

STUDENT PEER
REVIEWED
PUBLICATIONS

- "Find the Doctor" problem, Elizabeth Alonzo, 5th Grade, Friday Math Group, Simsbury, CT, "Palette of Problems," *Mathematics Teaching in the Middle School*, National Council of Teachers of Mathematics (NCTM), Volume 14 Issue 3, Oct 2008. <https://www.nctm.org/Publications/mathematics-teaching-in-middle-school/2008/Vol14/Issue3/Palette-of-Problems---October-2008/>
- "Find the Doctor" problem, Elizabeth Alonzo, 5th Grade, Friday Math Group, Simsbury, CT, *Middle School Madness*, Columbia State University Online Math Contest, Feb 2008.
- "December 27, 28, 29, 30, 31" problems and solutions, Elizabeth Alonzo, John Boyesen, Nick Catalano, Anish Chadalvada, Kevin Gyurco, Jack Polizzi, Matthew Shaw, Kurumi Tsuda, Maxwell Turpin, Ryan Weathers, 5th Grade, Friday Math Group, Simsbury, CT. Instructor: M. Haruta, Assistant: D. Haruta, "Calendar Problems,"

Mathematics Teacher, National Council of Teachers of Mathematics (NCTM), Volume 101 Issue 5, Dec 2007, pp. 359, 365-366.
<http://www.nctm.org/publications/mathematics-teacher/>

MANUSCRIPT
REVIEWS AND
CONSULTING

Reviewer for mathematics textbook publishing firms: Pearson Publishing, Addison Wesley, John Wiley & Sons, Prentice Hall and Houghton Mifflin
Review of mathematics manuscripts: College Precalculus, Calculus, Brief Calculus, Algebra, Trigonometry, Discrete Mathematics
Editing and Authoring: Textbook manuscripts, technology materials, and online supplemental materials. 1992-present.

TEACHING

Mathematics Department, University of Hartford

M110 Modeling with Elementary Functions (Course Coordinator 1993-2015)
M112 A Brief Course in Calculus (Course Coordinator 1993-2016)
M116 Contemporary Mathematics (Course Coordinator 2020-present)
M140 Precalculus (Course Coordinator 2004-2017)
M144 Calculus I Course (Coordinator 2010-2016, 2020-present)
M145 Calculus II (Coordinator 2010-2016, 2020-present)
M220 Linear Algebra
M240 Multivariable Calculus
M242 Differential Equations
M480 Independent Study - Calculus Solutions Group

Mathematics Department, Buckingham Browne & Nichols Upper School
AP Calculus BC, Honors Precalculus, Geometry, Algebra II

Math Gifted Program Design, Squadron Line Elementary School

Problem solving, writing, co-editing, presenting, and publishing
Manipulative puzzles and games, Combinatorics, Geometry, Graph Theory, Origami, Introduction to proof, Sequences and Series, Trigonometry

PEDAGOGICAL
TECHNOLOGY

Cengage WebAssign, Pearson MyLabMath, Blackboard, Zoom, Webex, L^AT_EX, iPad, WebWorK, Maple, Texas Instruments (TI) graphing calculators, Redbooth, Slack

SERVICE

- Member of *The Provost's Task Force on Quality and Efficiency in Teaching and Learning*, in response to COVID-19, Spring 2020.
- Member of *Provost's Committee on Recruiting and Retaining a Diverse Faculty*, Spring 2018-present.
- Member of *University Working Group on Annual Faculty Evaluation*, Summer 2016.
- *University Sabbatical Committee* member, 2014/2015.
- *College of Arts and Sciences Promotion and Tenure Committee* member, 2004/2005, 2005/2006 and 2012/2013, 2013/2014.
- University of Hartford Campus Director for the *NASA Connecticut Space Grant College Consortium*, 1999-2011.
- Interviewer and essay grader for Presidential Scholarship Day, Feb 2017, Jan 2020.
- College of Arts and Sciences Recruitment and Retention events including but not limited to Fall Previews, Spring luncheons, phone calls, class visits, interviews with prospective students, 1992-present.
- Faculty Mentor, College of Arts and Sciences, 2010-2013, 2019-present.

- Assembled Common Final Exam Coordinator and Scheduler, 2000-present.
- Faculty advisor to undergraduate Mathematics majors, 1996-present.
- Texas Instruments (TI) Graphing Calculator Technology Coordinator. Departmental manager and University liaison with service course colleges and departments for cross-campus uniformity, arranging for donated equipment from TI (\$20,000+ in TI classroom equipment over 21 yrs), 1995-2016.
- Hosted two-day visit of Professors Hiroki Oura and Yuki Watanabe, from Tokyo Institute of Technology, with J. McGivney-Burelle, D. Miller, L. Schroeder, F. Xue. Seminar talk “Creating Self-Regulated Learners: Tokyo Tech’s Data Driven Approach.” Oct 2017.
- Invited to establish cooperative relationships and international exchange agreements in Japan. Visits to: Aichi University of Education, Kariya; Tokyo University of Science, Kagurazaka Campus; Yokohama Science Frontier High School, Yokohama. Jun 2017.
- Hosted one-day visit of Professor Jim Sandefur, from Department of Mathematics and Statistics, Georgetown University. Seminar talk “What are our students thinking (mathematically)? What can we do about it?” Apr 2017.

PROFESSIONAL
DEVELOPMENT
(recent)

- *11th Annual ACMHE Conference: Radical Well-Being in Higher Education: Approaches for Renewal, Justice, and Sustainability*, Association for Contemplative Mind in Higher Education (ACMHE), Center for Contemplative Mind (CMind) in Society, UMASS Amherst, Amherst, MA, Nov 2019.
- *Beyond the Binary 2019: An inclusive conference designed to promote gender diversity in mathematics and explore career opportunities for all*, University of Hartford, Apr 2019.
- *Persistence, Possibilities, the Power of Our Voices: 2018 Smith College Women of Color Conference*, Northampton, MA, Apr 2018.
- *Pushing Boundaries: Smith College Women’s Leadership Conference 2017*, Northampton, MA, Mar 2017.
- *National Science Foundation (NSF), Directorate for Education Human Resources (EHR), Division of Undergraduate Education (DUE) Outreach Program*, University of Hartford, Feb 2017.
- *American council on Education (ACE) Leadership Academy conference for Department Chairs (LADC)*, Georgetown University Conference Center, Washington, DC, Oct 2016.

MINDFULNESS
TRAINING

Mindfulness-Based Stress Reduction (MBSR)

- *MBSR Teacher-Training Level 1*, Mindfulness Center at Brown, School of Public Health, Providence, RI. 2020-present.
- Teaching Yoga for MBSR: A Workshop for Teachers, Mindfulness Center at Brown, School of Public Health, Providence, RI. 2021.
- Mindfulness Tools for Holiday Stress half-day live-online workshop/retreat. Mindfulness Center at Brown, Providence, RI, Dec 2020.
- MBSR Foundations 10-week, Mindfulness Center at Brown, School of Public Health, Providence, RI. 2020.
- MBSR 8-week course, live-online at Mindfulness Center at Brown, School of Public Health, Providence, RI, Summer 2020, Fall 2020.

- Mindfully Stabilizing Your Life: A 1-Day Online Self-Retreat with Jon Kabat-Zinn and Will Kabat-Zinn, live online, Omega Institute, Rhinebeck, NY, Jul 2020.
- MBSR 8-week course, Copper Beech Institute, West Hartford, CT, 2019.
- Mindfulness-Based Cognitive Therapy (MBCT) 8-week course (Patti Holland), live-online, Mindfulness Center at Brown, Providence, RI, Spring 2020.

Science of Mindful Habit Change

- *Mindfulness-based Behavior Change Facilitator Training Course* 16 week. (Jud Brewer, MD PhD, Robin Boudette, MD) MindSciences.com, 2020-2021.
- The Science of Habit Change: Working With Fear & Uncertainty to Grow Kindness Connection, (Jud Brewer, MD PhD and Robin Boudette, MD) one day live-online workshop, Omega Institute, Rhinebeck, NY, May 2020.
- The Science and Practice of Mindful Habit Change 10-week course (Jud Brewer, MD PhD and Patti Holland, MS CRC), in-person, converted to live-online, Mindfulness Center at Brown, Providence, RI, Spring 2020.

Mindful Self-Compassion (MSC)

- Mindfulness and Self-Compassion, 5-Night Silent Mindfulness Retreat, live-online, Mindful Way and The Center for Mindful Self Compassion, San Diego, Summer 2020. Retreat Description Link: mindful-way.com
- Mindful Self-Compassion (MSC) 8-week course, live online, UCSD Center for Mindfulness, San Diego, Summer 2020.

Seminars

- Building Compassion From the Inside Out with Thupten Jinpa. Compassion Institute, online. Jun 2021.
- Introduction to Insight Meditation, live-online one day workshop. Insight Meditation Center Of Pioneer Valley Dharma Dena, Inc. Easthampton, MA, Dec 2020.
- A Live Online Weekend Retreat With Pema Chödrön: Welcoming the Unwelcome. Omega Institute, Rhinebeck, NY, Sep 2020.
- Leading in Times of Extraordinary Change: Mindfulness and Exemplary Leadership Practices: One-day retreat/workshop with Norman B. Anderson, live online at Copper Beech Institute, West Hartford, CT, Jul 19, 2020.
- How Can We be Daringly and Radically-Well During Times of Upheaval? June ACMHE Contemplative Education Webinar by Ericka Echavarria and Ife Lenard, live-online at The Association for Contemplative Mind in Higher Education (ACMHE), Florence, MA, Jun 26, 2020.
- Zen and Self-Cultivation Program with Rev. Takafumi Kawakami, live-online Zen Meditation and Dharma Talks, Shunkoin Temple, Myoshinji Temple, Kyoto, Japan, Jun 18, 25, 2020.
- Faith: Trusting Your Own Deepest Experience, with Sharon Salzberg, three one-hr classes, live-online at Insight Meditation Society (IMS), Barre, MA. Jun 2020.
- 2019 MINDFULNESS@WORK Summit, streaming online conference sessions, Summer 2019.

TRAINING

- Online Webinar Series including Keynote Speaker James Lang: "Small Teaching in the COVID era," Faculty Center for Learning Development (FCLD), University of Hartford, Hartford, CT, Aug 12-13, 2020.
- Online Teaching 101 8-sessions, Faculty Center for Learning Development (FCLD), University of Hartford, Hartford, CT, Summer 2020.
- Collaborative Institutional Training Initiative (CITI Program) "Social & Behavioral Research - Basic/Refresher" course completion and Certification, Mar 2012, Mar 2019.

MEMBERSHIPS

American Mathematical Society (AMS)
Association of the Contemplative Mind in Higher Education (ACMHE)
Association for Women in Mathematics (AWM)
Mathematical Association of America (MAA), Member (Department Liaison 1998-2016)
Mathematical Association of Two-Year Colleges in Connecticut (MATYCONN) honorary membership
Sigma Xi Research Society
Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
US & Japan Society of Connecticut