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CHRIS DEDE
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Senior Research Fellow, Harvard Graduate School of Education

Chris Dede is a Senior Research Fellow at the Harvard Graduate School of Education and was for 22 years its Timothy E. Wirth Professor in Learning Technologies. His fields of scholarship include emerging technologies, policy, and leadership. His funded research includes grants from the National Science Foundation (NSF), the U.S. Department of Education's Institute of Education Sciences, and the Gates Foundation. From 2001-2004, he was Chair of the HGSE department of Teaching and Learning. In 2007, he was honored by Harvard University as an outstanding teacher, and in 2011 he was named a Fellow of the American Educational Research Association. From 2014-2015, he was a Visiting Expert at NSF, Directorate of Education and Human Resources. In 2021, he received a "Community Builder" award from the National Coalition for Technology in Education and Training (NCTET).

Chris has served as a member of the National Academy of Sciences Committee on Foundations of Educational and Psychological Assessment, a member of the U.S. Department of Education's Expert Panel on Technology, a Steering Committee member for the Second International Technology in Education Study, and a member of the 2010 National Educational Technology Plan Technical Working Group. In 2013 he co-convened a NSF workshop on new technology-based models of postsecondary learning, and in 2015 he led two NSF workshops on data-intensive research in the sciences, engineering, and education. In 2020 he co-founded the Silver Lining for Learning initiative (<https://silverliningforlearning.org>). He is currently a Member of the OECD 2030 Scientific Committee and an Advisor to the Alliance for the Future of Digital Learning, sponsored by the Mohammed bin Rashid Global Initiative (MBRGI). Also, Chris is a Co-Principal Investigator and Associate Director for Research of the NSF-funded National Artificial Intelligence Institute in Adult Learning and Online Education. He is the only person to twice receive the Association for Educational Communications and Technology (AECT) Distinguished Development Award.

Chris has co-edited seven books in the last sixteen years: *Scaling Up Success: Lessons Learned from Technology-based Educational Improvement*; *Online Professional Development for Teachers: Emerging Models and Methods*; *Digital Teaching Platforms: Customizing Classroom Learning for Each Student*; *Teacher Learning in the Digital Age: Online Professional Development in STEM Education*; *Virtual, Augmented and Mixed Reality in Education*; *Education at Scale: Engineering Online Learning and Teaching*; *Learning engineering for online education: Theoretical contexts and design-based examples*; and *The 60-Year Curriculum: New Models for Lifelong Learning in the Digital Economy*.

Professional Experience

2022-present: Senior Research Fellow, Harvard Graduate School of Education

- 2000-2022: Timothy E. Wirth Professor in Learning Technologies,
Harvard University
- 1991-2000: Full Professor, George Mason University
- 1996-1997: Senior Program Director, National Science Foundation
(on leave from GMU)
- 1984-1990: Visiting Scientist, Johnson Space Center, NASA
- 1984: Visiting Scientist, Computer Science Lab, MIT (Sabbatical)
- 1979-80: Policy Fellow, Office of the Director, National Institute of Education
(via the Institute for Educational Leadership)
- 1974-81: Full/Associate/Assistant Professor, University of Houston-Clear Lake
- 1972-74: Assistant Professor, University of Massachusetts

- Education**
- Ed.D. University of Massachusetts, 1972
science education
- B.S. California Institute of Technology, 1969
double major: chemistry and English

Representative Government Activities

National Academy of Sciences

- invited Paper and Talk, Workshop on Games and Simulations in Science Education
- co-chair, Committee on Enhancing Professional Development for Teachers: Potential Uses of Information Technology; Workshop on Online Teacher Professional Development
- member, Committee on Psychological and Educational Foundations of Assessment
- presenter, Workshop on the Roles of Information Technology in Improving Teaching and Learning in Undergraduate Science, Mathematics, Engineering, and Technology Education
- Keynote, Board on Science Education Workshop on Information and Communications Technology Fluency
- Organizing Committee and Panel Moderator, National Academy of Education Workshop on Big Data in Education

National Science Foundation

- Visiting Expert providing strategic counsel and support
- Invited presentation on postsecondary learning workshop, NSF
- Organized and moderated two NSF-funded workshops for the Computing Research Association: *Towards Big Steps Fostered by Big Data Science*, and *Advancing Data-intensive Research in Education*
- Co-Convener of NSF workshop on New, Technology-based Models of Higher Education

served for one year (on sabbatical) as Senior Program Director in the National Science Foundation's Directorate of Education and Human Resources. Responsible for initiating and directing \$25M funding program, "Research on Education, Policy, and Practice"

member, Committee of Vistors, CAREER program

participant, NSF Cyberlearning Workshop

speaker, NSF/EHR/REC Workshop on strategic planning for communication activities

participant, Computer Research Association Cyberlearning Workshop on Modeling, Simulation, and Gaming Technologies Applied to Learning

invited poster session, National Workshop on K-12 STEM Education (sponsored by NSF/NSA)

panelist, NSF Centers for Learning & Teaching Reverse Site Visit 05

Chair, Committee of Visitors, ISE program

Invited talks to NSF program officers on scalability of educational innovations and on the relationship of 21st century skills initiatives to STEM

Invited plenary talks to NSF ITEST Principal Investigators Meeting 09

Board of Advisors, CADRE DRK-12 Technical Support Project

U.S. Congress

testified to the Science Committee, U.S. House of Representatives, May, 2001

testified to the Congressional Web-based Education Commission, June, 2000

U.S. Department of Education

Technical Working Group, Evidence of Effectiveness Initiative

Briefing on Educational Technology, Secretary Duncan's Leadership Team

Technical Working Group, National Education Technology Plan 2009

Invited Panelist, US. Dept of Education Policy Briefing on Technology

Organizer, Workshop on Reinventing High Schools for the 21st Century

Member, Technology Expert Panel

Advisory Board, Designing a National Study of the Effectiveness of Educational Technology

Advisory Board, Ready to Learn Television program

U.S. Department of Defense

Expert Panelist on the comprehensive technology plan for the Department of Defense Education Activities

Invited Keynote, Educational Simulations and Serious Games Symposium, Defense Intelligence Analysis Center

U.S. Agency for International Development

Expert Panelist on designing and studying applications of educational technology for developing countries

Massachusetts State Government

Member, Task Force on 21st Century Skills

Testimony, Special Committee on Educational Technology

Representative Corporate Activities

ACTNext: Advisory Board

Mursion: Advisory Board

Macmillan: Advisory Board

Pearson: Efficacy Advisor

McGraw Hill Education: Advisor

Texas Instruments: Presenter at Roadshow events

Cognition: Advisory Board

Kirkland & Ellis: Expert witness in intellectual property case; our side won, other side's patent was invalidated

Wireless Generation: Consulting

The Capital Group: Invited briefing

Intel: External Research Advisory Committee

Qualcomm: Co-Chair Wireless EdTech Conference 2010, 2011, 2012, 2013; consultant

ETS: Standing Committee, NAEP Technology and Engineering Literacy Assessment

Lenovo: Advisory Board, Education Research Initiative

Sony: Invited presentation to Executive Advisory Board

Pearson: workshop on instructional design

Laureate: presenter, consultant

aal: Keynote, Users Conference

Mitre: Presenter, Interagency Distance Learning Advisory Council

Microsoft: Advisor for the U.S. Partners in Learning Mid-Tier Grant Program

Convener, Meeting on Student Privacy Issues related to Cloud Databases

Consultant

Dell: Speaker at Superintendents Forum

IBM: Consultant on New Models of Management Education;
Invited Talk at IBM Research Center: Education Group

Cap, Gemini, Ernst, & Young: Business Learning Forum "Future of Learning" RAVE

Representative Activities for Professional Associations, Foundations, Non-Profits, Schools

Member of the OECD 2030 Scientific Committee

Advisor to the Alliance for the Future of Digital Learning, sponsored by the Mohammed bin Rashid Global Initiative (MBRGI).

Member, IEEE X-Reality Working Group

Invited Speaker, Corporation for Public Broadcasting Board of Directors

Advisory Board, Massachusetts Personalized Learning Edtech (MAPLE)

Faculty Expert, Aspen Institute workshop on educational technology for Congressional staff

Advisor, Hewlett Packard Catalyst Projects

Invited Expert, Gates Foundation Workshop on Student Engagement and Non-Cognitive Skills Development

Advisory Board, Miami Science Museum NSF-funded projects

Research Advisor, Synergy ATE Project, University of Massachusetts—Boston

Invited Talk, Gates Foundation

Advisor, Hewlett Foundation

Research Advisor, ADA and UNED, Costa Rica

Research Advisor, the Friday Institute for Educational Innovation, North Carolina State University

Advisory Board, George Lucas Education Foundation

Juror, Brock International Prize in Education

Member, National Science Teachers Association e-Learning Panel

Board of Directors, Tech Boston Academy, Boston Public Schools

Co-Chair, National Technology Advisory Board, Milwaukee Public Schools

Education Advisory Board, the Partnership for 21st Century Skills

Advisor, Concord Consortium NSF-funded “Modeling Across the Curriculum” project

Advisor, North Carolina State University NSF-funded “Highly Interactive Fun Internet Virtual Environments in Science” project

Advisor, New Mexico State University ATE Project

Participant, Workshop on Emerging Educational Technologies, National Science Teachers Association

Advisory Board, PBS TeacherLine

Member, Association for Teacher Education Commission on Technology and the Future of Teacher Education

External Examiner for the University of Hong Kong's Program in Information Technology in Education

Policy Workshop Presenter, the Benton Foundation

Lead, State Policy Development Workshops, Council of Chief State School Officers

Member, International Education Association Steering Committee for the Second Information Technology in Education Study

Advisory Board, MSP-Net Project, TERC

Advisory Board, Optimizing Online Professional Development, EDC

Advisory Board, Technology—Education Connections (TEC) Series, Teachers College Press

Funded Research

Current Grants

Grotzer, T. (PI), and Dede, C. (Co-PI). *Next Level Lab: Applied Learning Sciences for Access, Innovation and Mastery (AIM)*. An initiative to enhance and extend workforce development, supported for the first year by Accenture for \$378,000.

City, E. (PI), and Dede, C., Gabrieli, J., Blatt, J., and Kim, J. (Co-PIs). *Reach Every Reader*. A five year initiative between Harvard and MIT to improve early childhood literacy. This five year project, begun in January, 2018, is supported by the Chan-Zuckerberg Initiative for \$30M.

Dede, C. (PI), and Kamarainen, A. (Co-PI). *Girl ARTS: Augmented Reality Targeting Science*. The ARTS project is aimed at the underrepresented population of girls in rural Maine and uses augmented reality to increase interest in and knowledge of STEM. This 3 year project was funded as a collaborating proposal with the University of Maryland in January 2018 for \$182,344.

Prior Funded Grants and Contracts as PI or Co-PI

National Science Foundation: to explore the power of immersive virtual environments to support computational thinking and ecosystem science learning in elementary grades.

National Science Foundation: building on a curriculum that fosters observational inquiry in virtual ecosystems, to add experiment-based inquiry as practiced in the ecosystems science field, through iterative cycles of experimentation, reflection, and revision.

Harvard Initiative on Teaching and Learning: to study how decision-making is taught across academic disciplines using experiential learning and personalized practice (2 grants in sequence)

National Science Foundation: to study how various forms of face-to-face and online professional development for the revised Advanced Placement Curricula correlate with student outcomes

Harvard Initiative on Teaching and Learning: to transform team-learning teaching cases in public health for online platforms (2 grants in sequence)

Harvard Initiative on Teaching and Learning: to use virtual reality narratives in foreign language pedagogy

Harvard Initiative on Teaching and Learning: to study the use of virtual machines to track creative writing assignments

National Science Foundation: to develop and study a set of learning experiences using mobile broadband devices (MBDs) to access virtual information and simulated experiences while immersed in real world ecosystems

National Science Foundation. To study the extent to which relationships between learners can be improved through transformed social interactions – an approach in which participants are endowed with capabilities for navigating their social world that humans do not normally possess.

National Science Foundation. Across a developmental span, to study the relationship between specific technology-based motivational activities (including a multi-user virtual environment) and student interest in STEM careers.

Institute of Education Sciences, U.S. Department of Education and Gates Foundation: to develop and study virtual performance assessments based on National Science Education Standards in middle school science.

Institute of Education Sciences, U.S. Department of Education: to develop a Multi-User Virtual Environment (MUVE)-based ecosystems science curriculum to determine how this may aid students in learning sophisticated science content and complex processes of causality.

Qualcomm: to study whether students using the EcoMUVE curriculum make further, complementary gains in motivation and learning by also using powerful mobile wireless devices to explore real ecosystems augmented with digital information and experiences

US Dept of Education: to develop and study augmented realities that help middle school students learn math and literacy by infusing virtual experiences into real world settings.

NSF: how to evolve a technology-based intervention for scalability — even into contexts in which some of its conditions for success are attenuated or lacking.

NSF: to study the types of insights gained by applying data mining and visualization approaches to three types of event-log datasets: intelligent tutoring system, multi-user virtual environments, and games

NSF: to conduct an invitational research conference, develop a research agenda, and publish a book on the evolution of models for online teacher professional development.

Harvard: to study sociosemantic networks for academic social tagging

Harvard: to study the use of handheld devices in college teaching

NSF: to examine the feasibility of developing a quantitative index that measures the relative scalability of an innovation.

Joyce Foundation: to study the extent to which guidance and mentoring of Milwaukee Public School (MPS) leaders, by experts at Harvard and EDC using Internet-2 based interactive media across distance, can complement site visits and face-to-face interaction.

NSF (2 grants): to study how shared virtual environments with digitized museum artifacts can aid the science learning of middle school students and can cast insights on situated learning and knowledge transfer

Atlantic Philanthropies: to implement and study virtual communities of practice in Harvard's Teacher Education Programs

Markle Foundation: to develop a business case study of Leapfrog, Inc., a company developing handheld learning devices

NSF: to study the potential of virtual reality for learning complex conceptual material in science

U. S. Department of Education: to develop immersive educational environments that aid learning-disabled secondary students to master science concepts and skills

Joyce Foundation: to aid the Milwaukee and Cleveland Public Schools with their technology planning, integration, and evaluation.

Office of Naval Research: to investigate the potential of virtual environment training for peacekeeping skills

NSF: to educate engineers about designing complex systems

NSF: to fund a series of interrelated presentations at the 1998 National Educational Computing Conference

NSF: to assess the potential of virtual reality for science education

Bell Atlantic Foundation: developing a regional consortium on distance education

NASA: to study the impact of advanced information technologies on knowledge creation, capture, transfer, and utilization.

NASA/Air Force: to design a tool for imaging mental models in virtual cognitive space.

Apple Education Foundation: to study microcomputers as a means for increasing the communications skills of disabled children.

Hogg Foundation: to assess the impact of home computers on family interaction patterns.

Research Presentations

Featured Speaker, Florida Educational Technology Conference 05

Keynote, PBS/USDoEd Conference on Kids and Digital Media, 05

Keynote, 1st Southeastern Regional Conference on Instructional Design and Technology

Plenary Panel, Consortium on School Networking National Conference, 05

Featured Speaker, National Science Teachers Association National Conference 05

Keynote, Tech Forum Regional Conference Midwest, 05

Three presentations, American Educational Research Association National Conference 05

Keynote, Manitoba Association for Distributed Learning and Training Conference, 05

Invited Address, Designing Learning Environments in the Digital Age, Harvard Design School

Keynote, Innovations in Online Learning Conference, 05

Invited Address, Council of Fellows, American Council on Education

Keynote, emPower Conference, University of North Texas

Invited Speaker, Celt National Education Summit 05

Keynote, Keystone Conference on Videoconferencing

Keynote, National Academy of Science Workshop on Information and Communications Technology Fluency

Luncheon Speaker, National School Boards Association 2005 National Conference on Technology and Learning

Keynote, NJEDge.net 2005 Conference

Panel, AACTE National Conference 06

Keynote, Ohio Statewide Educational Technology Conference 06

Keynote, SUNY Learning Network Summit, 06

Invited Panel, Society for Information Technology in Teacher Education National Conference 06

Keynote, Illinois Statewide Educational Technology Conference 06

Keynote Panel, two Featured Speeches, and Workshop for Superintendents, Florida Educational Technology Conference 06

Keynote, IEEE Virtual Reality Conference 06

American Educational Research Association 06: 3 papers

Keynote, Indiana Higher Education Telecommunications System Conference 06
 Keynote, Massachusetts Enhancing Education through Technology Conference 06
 Panel, American Association of Museums 06
 Invited Speaker, Louisiana State University Conference on Technology in Higher Education 06
 Invited Speaker (2 talks), U.S. Department of Education Project Directors Meeting 06
 Keynote, Rensselaer Polytechnic Institute Colloquium on Teaching and Learning 06
 Keynote, Texas CoSN Chief Technology Officers Conference 06
 Keynote, Educause Summer Symposium for Higher Education Executives 06
 Keynote, Consortium for School Networking Texas K-12 Chief Technology Officer Clinic 06
 Keynote, Building Learning Communities Conference 06
 Invited Speech, Harvard Institute for Educational Management 06
 Keynote, Synergy Conference 06
 Keynote, Campus Technology Conference 06
 Invited Case Teaching, State Education Technology Directors Association Education Forum 06
 Invited Talk, 13th National Advanced Technology in Education Principal Investigators Meeting
 06
 Invited Talk, University of Massachusetts Science Technology Education and Mathematics
 (STEM) Initiative 06
 Keynote, Third International Summit of Leadership in Education
 Plenary Address, SmartTech Global Education Technology Summit 06
 Helen DeVitt Jones Lecturer, Texas Tech University 06
 Invited Address, Council of Graduate Schools National Conference 06
 Keynote, Florida Educational Technology Conference 07
 Keynote, EDUCAUSE ELI Conference 07
 Keynote, University of Missouri Statewide Library Conference
 Keynote Panel, Symposium Panel, and Spotlight Talk, Consortium for School Networking
 Conference 07
 Keynote, Eighteenth International Conference on College Teaching and Learning
 Two symposium presentations, two paper presentations, a SIG keynote, and two discussant
 sessions at AERA 07
 Keynote, National University Telecommunications Network conference 07
 Keynote, ISTE-ETLO-SREB Online Learning Institute 07
 Spotlight Session and two Presentations, NECC 07
 Plenary Symposium and two Papers, CSCL 07
 Keynote, Learning Strategies Conference 07
 Plenary Panel, Campus Technology 2007
 Keynote and workshop, 2007 Conference on Distance Teaching and Learning
 Keynote, Columbian Ministry of Education Conference on Online Teaching
 Keynote, Educational Simulations and Serious Games Symposium, Defense Intelligence
 Analysis Center
 Keynote, 2007 MODSIM World Conference
 Plenary Panel, U.S. Chamber of Commerce Institute for a Competitive WorkForce 2007 Summit
 Panelist, NSF Advanced Technologies in Education Principal Investigators Conference 2007
 Invited Plenary, Educause 2007
 Panel, State Education Technology Directors Association Forum 2007
 Sarah Fine Institute Lectures, University of Pittsburgh, 2007

Keynote, League for Innovation in Community Colleges 2007
 Keynote and workshop, International Conference on Educational Technology 2007, Singapore
 Invited Spotlight Speaker, TIES 2007
 Two Spotlight Sessions, Florida Educational Technology Conference 08
 Two Plenary Panels, Consortium for School Networking 08
 Invited Address, Three Papers, and Two Discussant Roles at American Educational Research Association National Conference 08
 Keynote, Middle Tennessee State University Instructional Technology Conference 08
 Keynote, Synergy Thought Leaders Conference 08
 Keynote, University of Massachusetts System Instructional Technology Conference 08
 Three Spotlight Sessions and Two Panels, NECC 08
 Keynote and two workshops, Synergy Full Conference 08
 Two Spotlight Sessions, Innovative Learning Conference 08
 Presentation, AECT 08
 Panelist, State Educational Technology Directors Association 08
 Two panels, National Conference on Technology Innovation 08
 Two spotlight sessions, Florida Educational Technology Conference 09
 Invited Colloquium, Lehigh University
 Keynote and Plenary Talk, NSF ITEST PIs Meeting 09
 Panelist, Advanced Leadership Initiative, Harvard University
 Two invited speeches, Consortium for School Networking national conference 09
 4 presentations, 2 session chair, 2 session discussant, American Educational Research Association 09
 Presentation, Media in Transition Conference 09
 Keynote, Northeastern University Faculty Technology Conference 09
 Plenary Panel, Innovate-Educate New Mexico 09
 Invited Panelist, US. Dept of Education Policy Briefing on Technology
 Invited Panelist, American Enterprise Institute Symposium on Philadelphia's School of the Future
 Keynote, ISTE/BECTA/Kennessit EDUsummIT
 Two Spotlight sessions, one research paper, National Educational Computing Conference 09
 Presenter, Harvard Institute for Educational Management, 2009
 Keynote, Campus Technology Conference, 2009
 Invited Panelist, DoD Worldwide Military Education Symposium 09
 Keynote, National Conference on Online Teacher Professional Development, Costa Rica
 Keynote, Education Week Technology Conference New Jersey
 Invited Talk, National Research Council Workshop on Games and Simulations in Science Education
 Keynote and invited talks, EDGE Conference 09, Memorial University of Newfoundland
 Keynote, BECTA research conference 2009, Bristol England
 Keynote, Ubiquitous Learning 09
 Invited Address, Redefining Teacher Education for Digital Learners Summit
 Invited Panel, New England Association of Schools and Colleges
 Invited Panel, HigherEdTech Conference 10
 Keynote, Loyola University Technology in Education Conference
 Two Spotlight Sessions, Florida Educational Technology Conference 10

Keynote, Scholastic Summit on 21st Century Skills
 Keynote, National Association of State School Boards Conference on 21st Century Skills
 Invited Panelist, National Association for Research in Science Teaching Conference 2010
 Plenary Speech and Invited Symposium, Society for Information Technology in Teacher Education Conference 2010
 Keynote, Peterson Symposium 2010, International Baccalaureate Program
 Four presentations and four discussant sessions, AERA 2010
 Invited Talk, Pittsburgh Science of Learning Center
 Keynote, Lenovo Thinktank 2010
 Plenary Speech, Maine Big Ideas 1-1 Summit
 Keynote, Synergy Conference San Francisco
 Three presentations (one spotlight, one panel, one invited address) at ISTE 2010
 Keynote at the EDC Online Learning Institute 2010
 Visiting Scholar (Virtual), University of Phoenix
 Speaker, Leadership: An Evolving Vision Institute, Harvard
 Keynote, Emerging Technologies in Nursing Education Conference
 Invited Talk, Ecosystems Society of America
 Invited Talk, HGSE Institute for Educational Management
 Invited Talk, HGSE Leadership Institute for Academic Librarians
 Invited Talk, HGSE Future of Learning Institute
 Invited Talk, Research Symposium in Learning Technologies for Spanish and Latin-American Academics, Harvard University
 Keynote, New Hampshire Association of Special Education Administrators August Academy
 Plenary Panel, New England Board of Higher Education Conference 2010
 Virtual Keynote, United Kingdom VITAL Initiative
 Keynote, SolutionTree 21st Century Learning Summit
 Plenary Panel, Ecosystems Education Summit
 Invited Address, Drexel University
 Co-Host and Keynote, 2010 Wireless EdTech Conference
 Invited Talk, North Carolina E-Learning Board
 Keynote, Great Lakes 1-1 Conference
 Panel Discussant, Association for Public Policy Analysis and Management
 Presenter, Invitational Workshop on Research in Diagnostic Assessment, North Carolina State University
 Spotlight Session and Invited Panel, Florida Educational Technology Conference 2011
 Invited Talks, Conference on Cyberlearning Tools for STEM Education
 Two presentations, National Science Teachers Association 2011
 Two presentations, Consortium for School Networking 2011
 Invited Panelist, Public Sector Leaders Forum for Latin America 2011
 Four papers and one panel, AERA 2011
 Keynote, Association of Independent Maryland and DC Schools
 Keynote, Vermont Superintendents Conference 2011
 Policy Briefing, Rennie and PACE Centers, Washington DC
 Keynote, 7th Annual Innovations in eLearning Conference, George Mason University
 Invited Speech, Roundtable Session, Model Lesson, and Two Panels, International Society for Technology in Education National Conference 2011

Invited Address, Institute on Leadership—An Evolving Vision, Harvard Graduate School of Education
 Keynote, ERDI Innovation Conference 2011
 Invited Address, Institute for Educational Management, Harvard Graduate School of Education
 Invited Address, Leadership Institute for Academic Librarians, Harvard Graduate School of Education
 Keynote, Leading Innovation Conference, North Carolina State University
 Invited Panelist, International Mobiles for Education for Development Symposium, USAID
 Panel Presentation, Society for Research on Effective Education Fall 2011
 Keynote, International Society for Design and Development in Education
 Keynote, EC-TEL 2011 (Palermo, Italy)
 Invited Address, Workshop on Information and Communications Technology and Public Policy, Harvard's Kennedy School of Government
 Mary Blum Cohn Annual Lecture, University of New Hampshire
 Webinar on Models for Scale, Hewlett Packard Catalyst Grants Advisory Board
 Invited Talk, WestEd Board
 Invited Talk, Association for Educational Communications and Technology 2011 national conference
 Keynote, online 2011 Global Education conference
 Invited Speech, 2011 Learning and the Brain conference, Boston, MA
 Invited Speech, Brookings Institution, Washington DC
 Featured Speech and Panel, TIES 2011, Minneapolis MN
 Invited Panelist, Gates/MIT conference on Quality in Online Learning
 Keynote, Association of Teacher Educators
 Keynote, Educause Learning Initiative
 Keynote 2012 EdTech Teacher Winter Conference
 A plenary panel, an invited panel, and two regular panels at the Consortium for School Networking 2012 Conference
 Keynote, 2012 Virtual Worlds Best Practices in Education conference (in Second Life)
 Keynote, Virginia Community College System New Horizons Conference 2012
 American Educational Research Association Conference 2012 three papers, one poster, four discussant roles
 Keynote, Tech Forum Boston 12
 Keynote, Johns Hopkins University Technology, Cognition, and Learning Summit 2012
 Invited Talk, Invitational Research Symposium on Technology Enhanced Assessments, ETS
 Keynote, Learning First Leadership Council
 Invited Talk, Educational Testing Service
 Invited Plenary, NSF DRK-12 Principal Investigator Conference 2012
 Keynote, Immersive Education Conference 2012
 One paper, one panel, and one invited talk, International Society for Computers in Education Conference 2012
 Keynote, EDC/SREB/ISTE Online Learning Institute 2012
 Invited Talk, Leadership—An Evolving Vision Institute 2012
 Invited Talk, Institute for Educational Management 2012
 Invited Talk, Future of Learning Institute 2012
 Invited Talk, Leadership Institute for Academic Librarians 2012

Invited Talk, Defense Intelligence Agency
Panel and Poster, USAID m-Education conference 2012
Faculty, Aspen Institute Conference on Educational Technology
Invited Talk, George W. Bush Foundation Conference on School Productivity
Keynote (via videoconference), European Learning Industry Group
Invited Talk, Educause Learning Initiative Online Fall Focus Session 2012
Plenary Workshop, CoSN Teaming for Transformation Symposium, Mooresville, NC
E. Bruce Street Lecture on mobile learning, University of North Texas
Invited Speaker, NSF Math Science Partnerships PI Meeting 2013
Invited Speaker, SXSW 2013
Invited Talk on New Technology-based Models for Postsecondary Learning, NSF
Chair of Symposium and two Discussant Roles, AERA 2013
Invited Speech, North Carolina Nature Research Museum
Invited Speech, 2013 Learning Analytics Summer Institute – Boston
Invited Talk, Institute for Educational Management 2013
Invited Talk, EDUCAUSE Workshop on Breakthrough Models 2013
Invited Talk, EDCAUSE Sprint on New Models for Postsecondary Learning 2013
Invited Talk, Leadership Institute for Academic Librarians 2013
Invited Plenary, Future of Learning Institute 2013
Working Group Leader, EDUsummIT Conference 2013
Invited Panelist, Educational Testing Service Symposium on Science Assessment
Invited Panelist, Brookings Institution Mobile Learning Symposium
Three plenary speeches and two panels, Wireless EdTech Conference 2013
Keynote, Ontario, Canada 21st Century Skills Symposium 2013
Keynote, Illinois Conference on Scaling Up Student Success
Invited Speaker, Transatlantic Science Conference 2013
Keynote, Colleges of the Fenway Teaching/Learning Symposium 2013
Invited Panelist, City of Hong Kong Educational Transformation Conference
Invited Speech, Columbia University
Invited Speaker, 2014 Technology Enabled Personalized Learning Summit
Keynote, 2014 LearnLaunch Conference
Keynote, 2014 ACM Learning@Scale conference
Two Panels, SXSW 2014
Two Panels, Consortium for School Networking 2014
Discussant, Pearson Digital Oceans report, National Press Club
Five presentation and discussant roles, AERA 2014
Invited talk, Learning Environments for Tomorrow Institute, Harvard
Invited talk, HarvardX
Invited panelist, Global STEM Education conference 2014
Invited panelist, Smithsonian Digital Directions webinar
Invited Talk, Grantmakers for Education
Plenary Speaker, EdVis 2014
Keynote, Shanghai Open University Ubiquitous Learning Conference
Speaker, IAP Research Symposium for Spanish and Latin American Academics
Two poster sessions, International Conference on the Learning Sciences 2014
Invited Talk on Cyberlearning, National Science Foundation

Invited Panelist, Learning Analytics Summer Institute 2014
Speaker, Leadership—An Evolving Vision Institute, Harvard University 2014
Workshop presentation, EDUCAUSE Breakthrough Models Institute 2014
Speaker, Institute for Educational Management, Harvard University 2014
Keynote, SACSCOC Institute on Quality Enhancement and Accreditation 2014
Invited Speech and workshops, Kansas State University
Keynote, Forum on Digital Media for STEM Learning
Keynote, European Learning Industry Group (ELIG) 2014 Conference (London)
Invited Talk, Science and Technology Center, University of Maryland
Keynote and two workshops, 2014 Long Island Technology and Education Summit
Keynote, 2014 Province of Ontario 21st Century Skills Round Table
Keynote, European Conference on e-Learning (ECEL) 2014 (Copenhagen)
Plenary Panelist Library IVIES + RTL 2014 conference
Invited Webinar on Peer Learning, EDUCAUSE
Invited talk, Boston Higher Education Innovation Council
Keynote, Hong Kong Education City Conference 2014
Invited Talk, University of Hong Kong Center on Information Technology in Education
Webinar, California Academy of Sciences
Host and Presenter, Computing Research Association Workshop on Big Data in the Sciences and Engineering: Implications for Education
Invited Session, Cyberlearning 2015
Invited Presenter, US DoEd STEM workshop
Panel, CoSN 2015
Five presentations AERA 2015
Invited Webinar, Adobe Creativity Series
Host and Presenter, Computing Research Association Workshop on Data-Intensive Research in Education
Invited Panelist, Goldman Sachs/Harvard Global Education Conference 2015
Symposium, International Society for Technology in Education conference 2015
Speaker, Harvard University Institute on Leadership: An Evolving Vision 2015
Speaker, Harvard University Institute for Educational Management 2015
Keynote, New Hampshire Educational Technology Symposium 2015
Panelist, MIT Scaling STEM Education Summit 2015
Panelist and Workshop, European Learning Industry Group 2015 Conference (Berlin)
Panelist, Corporation for Public Broadcasting Board Retreat 2015
Invited Presenter, 2015 OECD/EC Global Education Industry Summit (Helsinki)
Keynote, Smart Education Conference, Beijing Normal University
Keynote, Workshop, Fireside Chat at Ontario, Canada 21st Century Skills Summit
Invited Talk, IBM Research Center
Keynote, Teaching for Tomorrow Workshop, Rennie Center for Educational Research and Policy
Spotlight Session, Talk, and Panel at CoSN 2016
Panel, Moderator, and Discussant at AERA 2016
Invited Talk, Personalized Learning Summit 2016
Presentation on Data-Intensive Research in Education, NSF DR K-12 PI Meeting 2016
Invited Panelist, OECD Summit on the Digital Economy (Cancun, Mexico)

Poster and Panel sessions at ISTE 2016
 Speaker at Harvard Graduate School Executive Education Institutes: Leadership—An Evolving Vision, Institute for Educational Management, Leadership Institute for Academic Librarians
 Organizing Committee and Panel Moderator, National Academy of Education Workshop on Big Data in Education
 Panel Presentation, IIT Leadership Conference 2016
 Presidential session and poster session, AECT 2016
 Keynote, SPARK conference 2016
 Invited Address, Concordia College, Portland, Oregon
 Keynote, ACT Summit 2016
 Presentation, NYSCATE 2016
 Keynote and paper presentation, Virtual Reality in Education: International Workshop at Harvard
 Presentation and Poster, Future Education Technology Conference (FETC) 2017
 Keynote and Featured Session, Ontario, Canada 21st Century Skills Summit
 Harvard Graduate School of Education Scaling for Impact Institute 2017
 Keynote, Virtual Worlds Best Practices in Education 2017 (in Second Life)
 Keynote, New Hampshire STEM Summit
 AERA 2017 one panel, one chair, one discussant
 Invited talk on science education, Harvard Astrophysics Center
 Panel, Global STEM Summit 2017
 Keynote, Rensselaer Polytechnic Conference on Learning Analytics
 Invited Talk, ARL-IIS Workshop on Team Learning and Taskwork 2017
 Spotlight Session, International Society for Technology in Education Conference 2017
 Four presentations, Distance Teaching and Learning Conference 2017
 Invited Speaker, Corporation for Public Broadcasting Board of Directors
 Invited Talk, Learning and the Brain Conference 2017
 Speaker and Facilitator, Scaling for Impact Institute, Harvard Graduate School of Education
 Keynote, SFERE-Provence 2018 Symposium, Marseille, France
 Invited Talk, Data in Education SIG, AERA
 Invited talk, Harvard Advanced Leadership Initiative Fellows 2018
 Invited Panelist, 2018 Global STEM Summit
 Co-Organizer and Presenter, Harvard's Invitational Workshop on the 60 Year Curriculum
 Keynote, Appalachian Higher Education Network Conference 2018
 Immersive Learning Faire, Leadership: An Evolving Vision, Harvard University
 Presenter, Institute of Education Management, Harvard University
 Invited Speaker, AI and Education Roundtable, Politico
 Presenter, ACTNext Education Technology and Computational Psychometrics Symposium
 University of Georgia Innovations in Teaching Conference
 University of Ottawa (Canada) Artificial Intelligence Symposium
 Invited Panel, iNACOL national conference
 Keynote, Harvard School of Public Health/Harvard Initiative in Learning and Teaching Case Teaching Workshop
 Invited Panelist, Harvard Advanced Leadership Initiative Fellows
 Invited Panelist, Interservice/ Industry Training, Simulation and Education Conference

Plenary Address, NSF-funded Workshop on Scalable Advanced Learning Ecosystems (Georgia Tech)

Keynote, IEEE International Conference of Semantic Computing 2019

Invited Talk, Corporation for Public Broadcasting Advisory Council 2019

Panelist, SXSWedu 2019

Invited Panel, Association of Test Publishers conference 2019

Workshop, Association for Continuing, Professional, & Online Education (UPCEA) conference 2019

Keynote, NSF-funded Workshop on Digitally Mediated Team Learning, University of Central Florida

Speaker, National Governors Association Summit on Future Workforce

Invited Panelist, Global STEM Summit at Harvard University

Plenary Speaker, IEEE Learning Engineering Conference 2019

Invited Panelist, Future of Work Conference, UPCEA 2019

Speaker, ISTE 2019

Speaker, Serious Play Conference 2019

Keynote Speaker, International Youth Innovation Design Competition 2019

Poster session and Workshop, NSF STEM+C Principal Investigators Summit 2019

Panel, XR in Learning Global Summit 2019

Plenary Speech, Learning and the Brain Conference 2019

Invited Panel, I/ITSEC conference 2019

Keynote, IEEE AIVR conference 2019

Keynote, Illuminate conference 2020

Invited Panelist, Harvard Workshop on AI and Technology in Negotiation

Panelist, Consortium for School Networking 2020

Plenary Speech, iLRN conference 2020

Invited Panelist, Republic of Letters conference 2020

Keynote, TechHR India 2020

Plenary Speech, iFEST 2020

Invited Speaker, NSF Future of Work workshop

Keynote, IEEE AI4i 2020

Esperanza Webinar Rethink Higher Education September 2020

Two invited panels at ASU-GSV 2020

EdWeb webinar

Panel, regional conference UPCEA NE 2020

Plenary Session, Google's The Great Exchange Student Engagement Summit 2020

Panel and Workshop, University of Houston—Clear Lake

Panel, vI/ITSEC 2020

Lead Speaker, Webinar on e-Learning in Higher Education, sponsored by Faith Bangladesh

Keynote, Open University of Hong Kong faculty development workshop

Invited Panel, national conference UPCEA 21

Invited Talk, Future Workforce Conference February 2021

Invited Talk, Council for Adult and Experiential Learning (CAEL) webinar 2021

Invited Panelist, Bangladesh Daffodil University 2021

Invited Panelist, Institute for Educational Leadership webinar on diversity 2021

Invited Panelist, Central Asia NobelFest II

Invited Talk, Aprendocasa, Chile
Invited Webinar, Arab Bureau of Education for the Gulf States
Invited Panelist, Grantmakers for Education
Moderator, ED Games Expo Fireside Chat
Invited Panelist, LegalCon 2021
Co-Presenter, NIH SciEd conference 2021
Invited Panelist, High Tech High Touch (HTHT) Conference 2021
Invited Panelist, Conference Board Committee on Economic Development webinar
Invited Panelist, eMOOCs and Learning@Scale 2021
Presentation, Connected Learning 2021
Invited Panel, American Marketing Association
Presenter, IFEST 2021
Keynote, Thailand Cyber University International eLearning Conference 2021
Invited Panel, CIRCLS 2021
Invited Presentation, Minnesota Learning Commons
Invited Panelist, Innovations in Undergraduate and Graduate Education 2021
Invited Workshop, Council of Former State School Officers
Keynote, Singapore University of Social Sciences
Invited Colloquium, Work and Life Center, Georgia Tech
Invited Panelist, Global Tech in eLearning Forum 2022
Invited Talk, Educational Testing Service
Keynote, 9th Educational Technology Summit (Turkey)
Keynote, Distance Education and eLearning Summit (Malaysia)
Keynote, International Conference hosted by Korean Society for Educational Technology
Panel, 4th Kazakhstan EdTech Forum
Corporation for Public Broadcasting-Public Broadcasting System Ready to Learn Advisory Board meeting
WebXR Education Summit Panelist
Plenary Speaker, IEEE ICICLE Learning Engineering Conference 2022
Speaker, iFEST 2022
Invited Panelist, Global Forum Latin America and the Caribbean 2022
Presenter, 9th International Conference on Concept Mapping
Keynote, Immersive Education Summit (Switzerland) 2022
Keynote, AI and Education PALS UMass Workshop 2022
Keynote, Hope Collaborative Summit 2022
Keynote, Empowering Learners in AI 2022
Invited Panelist, Global Tech in eLearning Forum 2023
Workshop, Singapore University for Social Sciences
Webinar, National Technological University, Singapore
Presenter and Facilitator, HGSE Scaling for Impact Institute 2023
Accenture/HGSE Workshop on Generative AI and the Evolution of Work
Keynote, University of Florida Workshop on Artificial Intelligence in Education
Chair, Division C Symposium, AERA 2023
Canadian Association for University Continuing Education conference keynote 2023
Education University of Hong Kong Metaverse conference keynote 2023

Professional Development Presentations

Keynote, Academic Technology Conference, Lesley University
 Invited Address, Harvard Institute for Independent School Leaders, 05
 Invited Address, Friday Institute, North Carolina State University
 Presenter, Harvard University International Education Workshop 05
 Presenter, Harvard University Institute for Educational Management 05
 Invited Address, Microsoft U.S. Partners in Learning Mid-Tier Grantees Workshop 05
 Keynote and Workshop, Teaching Academy, New Mexico State University
 Invited Panelist, Colorado Association of School Executives
 Invited Speech (videoconference), Iowa State Department of Education
 Invited Speaker, Deloitte and Harvard's Learning Innovations Laboratory Co-Sponsored
 Workshop on Millennials
 New Hampshire State Department of Education Technology Mini-Grants Conference 06
 Invited Address, EDUCAUSE Web Symposium, May 06
 Invited Talk, Wireless Generation, Inc.
 Invited Address, Massachusetts Association of School Business Officers
 Invited Address, Educause Web Symposium, November 06
 Workshop, Association of Delaware Valley Independent Schools
 Invited Talk and Workshops, Indiana State University
 Invited Talk at Forum, Boston Museum of Science
 Invited Address and Workshops, St. Louis University
 Keynote, Conference on Children and Gaming, Southern New Hampshire University
 Invited Talks, Arizona State University
 Keynote, Leadership Conference, TetraData Corporation
 Invited "BrainGain" Address, Harvard Business School
 Connecticut Cooperative Educational Services Distinguished Leadership Lecturer
 Keynote, Coppin State 3rd Annual Conference on Information Technology in Teaching and
 Learning
 Workshop, National Institute for Staff and Organizational Development (NISOD)
 Keynote, 21st Century Learning Communities Conference, University of Louisville
 Invited Presentation, U.S. State Department sponsored visit of representatives from Indonesia
 Ministry of Education
 Invited Talk, Association of American Publishers
 Workshop, NY BOCES Technology Leadership Institute 07
 Invited Speech, Princeton University
 Workshops, Springside School, Philadelphia
 Keynote, E-Learning for Educators 07
 Author's Lunch and Invited Talk, Massachusetts Association for Supervision and Curriculum
 Development
 Workshop, Association of Independent Schools of New England
 Keynote, Community College of Allegheny County Professional Development Day
 Keynote, Detroit Digital Learning Initiative Community Conference
 Workshop, Needham, MA Public Schools
 Keynote, aal Users Conference
 Invited Talk, CLIR Symposium on Scholarly Methods in the Humanities, Brown University

Keynote, Maine IL Public Schools
 Invited Talk, Leadership Initiative in Science Education, Chemical Heritage Foundation
 Invited Talk, Bishops School, San Diego
 Keynote, Instructional Technology Conference 08, Clark County NV Schools
 Keynote, NY OCMBOCES Annual Conference 08
 Keynote, 6th Faculty of the Future Conference, Bucks County Community College
 Invited Presentation, University of Massachusetts—Amherst Marathon
 Speaker, Institute for Educational Management and Leadership: An Evolving Vision Summer
 Institutes at HGSE 08
 Panelist, Campus Technology Executive Leadership Institute 08
 Keynote, ABEL Conference, York University, Toronto
 Plenary Speaker, 1:1 Leadership Conference, North Carolina State University
 Keynote, Manchester Community College
 Presentation, Boston Public Schools Leadership Development Council
 Workshops, University of Oklahoma
 Workshop, Montgomery County Intermediate Unit, PA
 Invited Talks, Framingham State University 08 and 09
 Invited Talk, Kaput Center for Research and Innovation in Mathematics Education, UMass
 Dartmouth
 Keynote, LITRE Conference, North Carolina State University
 Keynote for Workshop on Mobile Devices in Research and Teaching, Harvard Libraries
 Workshop, Bethlehem PA Schools
 Invited Talk, Derek Bok Center for Teaching and Learning, Harvard University
 Invited Talk, North Carolina New Schools Project Leadership Conference 09
 Invited Presentation, Chilean University Team, LASPAU
 Workshop, Needham Public Schools
 Invited Address, Harvard Provost's Technology Conference 09
 Webinar, Classroom 2.0 Future of Education series
 Keynote, Nevada Association of School Administrators
 Turning Technologies Gaming Workshop, Orlando, Florida
 Keynote, Faculty Technology Conference, Austin Peay University
 Invited Videoconference to CESAs #1 and #6, Wisconsin
 Invited Webinar, Discovery Educational Network
 Invited Talk, Superintendents' Roundtable, Harvard
 Invited Talk, Leadership Institute for Superintendents, Harvard
 Invited Talk, Universidad Diego Portales, LASPAU-Harvard
 NSF ITEST Program Webinar and Panel on Scaling Up
 Invited Speech, Ubiquitous Learning Institute, University of Illinois Champaign-Urbana
 Invited Speech, Lexington Public Schools
 Invited Speech, University of Baltimore
 Invited Speech, Excelsior College
 Workshop, The Education TEC Cooperative
 Keynote, University of Alabama System Scholars Conference
 Keynote, New Hampshire Summit on Redefining Educator Development
 Workshop, Chappaqua Public Schools, New York
 Talk, Discovery Educational Network 2010

Invited Talk, Punahoe Independent School, Hawaii
 Plenary Panel, Sylvan Learning Conference 2010
 Talk, Houghton Mifflin Workshop
 Workshop, Bethune-Cookman University
 Invited Speech, USNY Technology Policy and Practices Council
 Keynote, Verizon Foundation Principal Investigators Meeting
 Invited Talk, Gates Foundation
 Invited Talk, Shriver Center, University of Massachusetts
 Workshop, Northern Westchester BOCES
 Invited Talk, Center for Innovative Teaching and Learning, George Washington University
 Panelist, Many Voices One Goal Conference, Raleigh NC
 Invited Talk, Tufts University STEM Series
 Invited Webinar on Mobile Learning, USAID
 Workshop, Region 10 Educational Service Center, Dallas, Texas
 Panelist, Critical Issues and Strategies for Leaders of Modern Universities in Brazil, LASPAU
 Keynote, Faculty Technology Day, Suffolk University
 Webinar, U.S. Dept. of Education Office of Special Education
 Keynote, CITE Conference 2011, Chesterfield VA Public Schools
 Two Webinars on immersive learning for EdWeb
 Webinar, Intel External Research Partners
 Opening Address, Princeton NJ Regional Schools
 Invited Talk, EDCO Policy Forum
 Invited Talk, Raise Your Hand Texas 2012
 Panelist, Harvard Business School 2012 Social Enterprise Conference
 Plenary Speech, Scholastic Conference on Cognitive Science, Technology, and Teaching
 Workshop, Special Education Directors, Wested
 Keynote, Southern Alberta Institute of Technology Faculty Showcase
 Workshop, International Academic Program Research Symposium (Chile, Spain, Mexico)
 Invited Speaker, NAEP Governing Board Event on 2009 Science Outcomes
 Invited Speaker, Webinar, Connected Teaching Event 2012
 Invited Talk (in Second Life), International Society for Technology in Education SIG-Virtual
 Environments
 Workshops and Talks, The Bishops School (La Jolla, California)
 Invited Talk, Howard Hughes Medical Institute Education Group, MIT
 Webinar on Scaling Up Success, CoSN-MacArthur Participatory Learning Initiative
 Invited Speaker, Cambridge, MA STEM Inclusion Roundtable
 Workshop, Southern Westchester BOCES
 Keynote, Faculty Development Workshop, University of New Haven
 Keynote, Lexia Learning conference on personalization
 Workshop, Massachusetts Association of School Business Officers
 Invited Talk (virtual), Cooperative Educational Service Center #1, Wisconsin
 Panel Moderator, Harvard Igniting Innovation Conference 2014
 Invited Panelist, Harvard College in Asia Program
 Invited Panelist, Harvard Venture Partners
 Invited Talk, Summit Analytics
 Invited Panelist, Harvard Advanced Leadership Initiative Think Tank 2015

Keynote, US Naval War College Faculty Cloister 2015
 Invited Briefing, Hewlett Foundation Board Retreat 2015
 Invited Briefing, USNY Technology Policy and Practice Council
 Keynote, ECPI University
 Invited Talk, Friday Institute, North Carolina State University
 Invited Panelist, MIT China Innovation and Entrepreneurship Forum
 Invited Presenter, Committee on Children, Connecticut State Legislature
 Invited Presenter, Chappaqua Public Schools
 Panelist, Harvard Innovation Lab Symposium on VR and AR 2016
 Workshops for Principals and Superintendents, Conseil des écoles catholiques du Centre-Est, Ottawa, Canada
 Workshop for Open Pediatrics, Boston Children's Hospital
 Panel, Harvard South Asia ConnectED conference
 Panel, Harvard Bangladesh Development Conference
 Workshops for K-12 Chinese students, US China Cultural Exchange Foundation
 Invited talk, Harvard GSE Innovations and Ventures in Education
 Keynote, Health Care Education 2.0, Harvard Macy Institute
 Keynote and workshops, Lamar University
 Workshops for Principals and teachers, Conseil des écoles catholiques du Centre-Est, Ottawa, Canada
 Invited talk, Harvard University Franklin Fellowship Program
 Invited Talk, University of North Carolina School of Education
 Invited Talk, North Carolina State University Friday Institute
 Invited Talk, Middlesex Community College, Lowell, Massachusetts
 Invited Panelist, Boston VR Meetup
 Judge, HIVE Pitch Competition 2018, Harvard Innovation Lab
 Workshop, Eight Schools Association
 Invited Keynote, Needham Public Schools
 Workshops on Leadership, CECCE School Board, Ottawa, Canada
 Invited Talk, North Carolina State University Friday Institute
 Invited talk, Harvard University Franklin Fellowship Program
 Webinar, Greater Texas Foundation
 Invited Talk, UMass Lowell School of Engineering
 Panel, Harvard Advanced Leadership Initiative Final Symposium 2019
 Talk and workshops, Rollins College
 Invited talk, Boston VR Meetup
 Invited Talk, Harvard Club of Bangalore
 Invited Panelist, ETHRWorld Future Skills Conference
 Invited Panelist, Boston Higher Education Meetup
 Workshop, Garden City School District, New York
 Invited Talk, HGSE China Education student group
 Two Invited Talks, HGSE TIE Diversity Inclusion Equity group
 Invited Speaker, DePaul University School of Continuing Education
 Plenary Speaker Future FocusED 2023, Beaver County Day School
 Harrisburg University workshop 2023

Administrative Responsibilities

From July, 2001 to June, 2004, Chair of Learning & Teaching Area, Harvard Graduate School of Education.

From November 1996 to October, 1997, Senior Program Director, National Science Foundation

From January, 1993 to September, 1995, Director of Federal Relations & Strategic Alliances, GMU.

From January, 1991 to January, 1994, Director, Center for Interactive Educational Technology, GMU

Initiated and directed graduate programs in science education, futures research, and educational technology at the University of Houston—Clear Lake.

Awards

2022: Association for Educational Communications and Technology
Distinguished Development Award

2022: Association for Educational Communications and Technology Outstanding
Digital Learning Artifact Award

2022: Outstanding Contribution to Workplace & Industry Training Award at the
iLRN 2022 International Conference

2021: “Community Builder” award from the National Coalition for Technology in
Education and Training (NCTET)

2017: Named as one of “the top 25 edtech innovations and innovators of the past
25 years” by the Consortium for School Networking

2017: Outstanding Contributions to Research in Immersive Learning Award,
AERA

2016: Center for Digital Education Award in “Top 30 Technologists,
Transformers, and Trailblazers”

2015 Best Paper Award, AERA SIG Applied Research in Immersive
Environments for Learning

Noted by Tech and Learning journal in 2013 as one of the most “influential
people affecting the advancement of technology in education”

2012 Award from Association of Teacher Educators for “outstanding leadership
and dedication to the education profession.”

2012 International Conference on Interpersonal Relationships in Education Best
Poster Award

2012 National Environmental Education Week Green STEM Innovators Award

2011 Association for Educational Communications and Technology
Distinguished Development Award

2011 Association for Educational Communications and Technology Immersive Learning Award, Interactive Category
 Outstanding Paper Award, Ed-Media 2011 (authors Code, Clarke-Midura, Zap, & Dede)
 2011 Fellow of the American Educational Research Association
 Special Achievement Award, Society for Information Technology in Teacher Education, 2010
 Certificate of Special Recognition, Consortium for School Networking, 2009
 The Friday Medal, North Carolina State University, 2009
 Honored by Harvard University as an Outstanding Teacher, 2007
 National Service Award, National University Telecommunications Network, 2007
 AERA Outstanding Reviewer, 2003, 2008
 COSN "Making It Happen" Award, 2003
 Chancellor's Award for Outstanding Service, UHCL, 1985
 Educational Policy Fellow, Institute for Educational Leadership, 1979
 University-wide Outstanding Teaching Award, UHCL, 1975
 Danforth Fellow, 1969-72
 Named as one of top twelve graduating chemists by the American Chemical Society, 1969

Courses Taught	T518	Next Generation Design: Methods and Heuristics
	T-502	Learning Media that Bridge Distance and Time
	T511J	Effectively Implementing Learning Technologies to Address Global and Local Challenges
	T511K	Transforming Education through Emerging Technologies
	T-561	Emerging Educational Technologies
	S-475	Practicum in Design-based Research
	T-505	Leadership in Educational Technology Policy
	T-545	Engagement and Learning: Technologies that Invite and Immerse
	T510T	Engagement and Learning: Technologies that Invite and Immerse (half course)
	517	Immersive Learning: Virtual, Augmented, and Mixed Realities
Service (current)	2021-present	Journal of Technology, Mind, and Behavior Editorial Board
	2013-present	MITx Press Editorial Board
	2010-present	ETR&D Research Consulting Editor
	2009-present	Editorial Board, Educational Researcher
	2003-present	Technology Education Connections Advisory Board,

	Teachers College Press
2001-present	Editorial Review Board, <i>Journal of Technology in Teacher Education</i>
2001-present	Editorial Board, <i>International Journal of Science Education</i>
2000-present	International Journal of Educational Technology Advisory Board
2000-present	Journal of Science Education and Technology Advisory Board
1998-present	Review Board, <i>Journal of Learning Sciences</i>

Memberships American Educational Research Association
 Consortium for School Networking
 International Society of Learning Sciences

Publications

Edited Volumes

- Dede, C. & Richards, J. (Eds.). (2020). The 60-Year Curriculum: New Models for Lifelong Learning in the Global Digital Economy. New York, NY: Routledge.
- Dede, C., Richards, J., & Saxberg, B. (Eds.). (2019). Learning engineering for online education: Theoretical contexts and design-based examples. New York: Routledge.
- Liu, D., Dede, C., Huang, R., & Richards, J. (Eds.). (2017). Virtual reality, augmented reality, and mixed reality in education. Hong Kong: Springer.
- Dede, C., Eisenkraft, A., Frumin, K., & Hartley, A. (Eds.). (2016). Teacher learning in the digital age: Online professional development in STEM education. Cambridge, MA: Harvard Education Press. (also published in Chinese by the Science Press, 2018)
- Dede, C., & Richards, J. (Eds.). (2012). Digital teaching platforms: Customizing classroom learning for each student. New York: Teacher's College Press.
- Dede, C., (Ed). (2006). Online Professional Development for Teachers: Emerging Models and Methods. Cambridge, MA, Harvard Education Press.
- Dede, C., Honan, J., & Peters, L., (Eds). (2005). Scaling Up Success: Lessons Learned from Technology-Based Educational Improvement. New York: Jossey-Bass.
- Dede, C., Ed. (1998). Learning with Technology (1998 ASCD Yearbook). Alexandria, VA: Association for Supervision and Curriculum Development.

Articles and Book Chapters

- Bondie, R. Macenido, Z., Adams, H., & Dede, C. (in press). Exploring data analytics in mixed quality simulations to measure teacher responsiveness. *9th International Conference of the Immersive Learning Research Network*, San Luis Obispo, CA.
- Bondie, R., & Dede, C. (in press). What we want versus what we have: Transforming teacher performance analytics to personalize professional development. In P.D. Moskal, C.D. Dziuban, & A Picciano (Eds.), *Data Analytics and Adaptive Learning, Research Perspectives*. New York, NY: Taylor & Francis/Routledge.

- Bondie, R., Zushko, A., Wiseman, E. Dede, C., & Rich, D. (2023). Can differentiated and personalized mixed reality simulations transform teacher learning? *Technology Mind Behavior* doi.org/10.1037/tmb0000098
- Metcalf, S., Dede, C., Jeon, S., & Reilly, J.M. (2022). Fostering Systemic and Evidentiary thinking in Elementary learners: Concept Mapping of Causal Relationships in Ecosystems. In A. Canas, P. Reiska, & J. Vanhear (Eds.), *Concept mapping: Improving learning and understanding* (Proceedings of the 9th International Conference on Concept Mapping), 106-115. Tallin, Estonia: Concept Mapping Academy.
- Dieterle, E, Dede, D., & Walker, M. (2022). The cyclical ethical effects of using artificial intelligence in education. *AI & Society* DOI: [10.1007/s00146-022-01497-w](https://doi.org/10.1007/s00146-022-01497-w)
- Leech, K.A., Wheat, D., Rowe, M., Blatt J., & Dede, C. (2022). “Literacy is everywhere!”: Using digital technology to broaden how parents view the home literacy environment *Applied Developmental Science*, DOI: [10.1080/10888691.2022.2125392](https://doi.org/10.1080/10888691.2022.2125392)
- Dede, C. (2022). The Coming Sea-Change in Teacher Education. *Journal of Technology and Teacher Education*, 30(2), 117-125. Waynesville, NC USA: Society for Information Technology & Teacher Education. <https://www.learntechlib.org/primary/p/221170/>.
- Radu, I., Dede, C., Wang, J., Nie, G., Bhola, K., & Scuzzarella, M. (2022). Using virtual environments to reveal teacher bias towards students’ socioeconomic status. *2022 8th International Conference of the Immersive Learning Research Network (iLRN)*, pp. 1-8. doi: 10.23919/iLRN55037.2022.9815955.
- Dede, C., Zhao, Y., Mishra, P., and Bonk. C. (2021). The Silver Lining for Learning webcasts as a bottom-up driver of global educational innovation. *Journal of Digital Politics* 1(3), 523-542. doi: 10.53227/103803
- Chen, J., Chen, M., Dede, C., & Grotzer, T. (2021). Analyzing student thinking reflected in self-constructed concept maps and its influence on inquiry task performance. *Instructional Science*, 49, 287-312.
- Dieterle, E., Holland, B., & Dede, C. (2021). The cyclical effects of ethical decisions involving big data and digital learning platforms. In E.B. Mandinach & E.S. Gummer (Eds.), *The ethical use of data in education: Promoting responsible policies and practices*, pp. 198-215. New York, NY: Teachers College Press.
- Dede, C., & McGivney, E. (2021). Lifelong learning for careers that don’t yet exist. In S. Jagannathan (Ed.), *Educational Technologies for Sustainable Development: How Upskilling, Data Analysis, and Digital Innovations Foster Lifelong Learning*, pp. 36-44. New York: Taylor & Francis.
- Dede, C. (2021). Supporting unlearning to enable upskilling. In J. Wingard & C. Farrugia, *The Great Skills Gap: Optimizing Talent for the Future of Work*, pp. 79-84. Menlo Park, CA: Stanford University Press.
- Radu, I., Dede, C., Seyam, M. R., Feng, T., & Chung, M. (2021). Using 360-Video virtual reality to influence caregiver emotions and behaviors for childhood literacy. *International Journal of Gaming and Computer-Mediated Simulations (IJGCMS)*, 13(1), 12-33. doi:10.4018/IJGCMS.20210101.0a2
- Bondie, R., & Dede, C. (2021). Redefining and Transforming Field Experiences in Teacher Preparation through Personalized Mixed-Reality Simulations. In R.E. Ferdig & K.E. Pytash (Eds.), *What teacher educators should have learned from 2020*, pp. 229-242. Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/p/219088/>.

- Bondie, R., Macenido, Z., & Dede, C. (2021). Interaction principles for digital puppeteering to promote teacher learning. *Journal of Research in Teacher Education*, 53(1), 107-123. DOI: 10.1080/15391523.2020.1823284
- Dinnar, S., Dede, C., Johnson, E., Straub, C., & Korjus, K. (2021). Artificial intelligence and technology in teaching negotiation. *Negotiation Journal*, 37(1), 65-82.
<https://doi.org/10.1111/nejo.12351>
- Metcalf, S.J., Reilly, J.M., Jeon, S., Wang, A., Pyers, A., Brennan, K. & Dede, C. (2021). Assessing computational thinking through the lenses of functionality and computational fluency, *Computer Science Education* 31(2), 199-223, DOI: [10.1080/08993408.2020.1866932](https://doi.org/10.1080/08993408.2020.1866932)
- Mills N., Courtney M., Dede C., Dessen A., & Gant R. (2020). Culture and vision in virtual reality narratives. *Foreign Language Annals* 53(4), 733-760.
<https://doi.org/10.1111/flan.12494>
- Jeon, S., Metcalf, S., Dickes, A. & Dede, C. (2020). Elementary teacher perspectives on a blended computational modeling and ecosystem science curriculum. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2020* (pp. 46-55). Waynesville, NC USA: Association for the Advancement of Computing in Education (AACE).
- Richards, J., & Dede, C. (2020). The 60 year curriculum: A strategic response to a crisis. *EDUCAUSE Review* 55(4), 24-38.
- Dede, C. (2020). Necessity is the parent of transformation: Universal, blended, personalized, lifelong learning. *School Administrator* 77(7), 26-29.
- Fischer, C., Fishman, B., Levy, A., Eisenkraft, A., Dede, C., Lawrenz, F., Jia, Y., Kook, J., Frumin, K., & McCoy, A. (2020). When do students in low-SES schools perform better-than-expected on a high-stakes test? Analyzing school, teacher, teaching, and professional development characteristics. *Urban Education*, 55(8-9), 1280-1314. <https://doi.org/10.1177/0042085916668953>
- Fischer, C., Foster, B., McCoy, A., Lawrenz, F., Dede, C., Eisenkraft, A., Fishman, B., Frumin, K., & Levy, A. (in press). Identifying levers related to student performance on high-stakes science exams: Examining school, teaching, teacher, and professional development characteristics. *Teachers College Record*, 122(2).
- Gibson, E.B., Kipp, M., Dede, C., Gooding, H.C., Phelps-Coco, A., Lin, K., Levinson, J.A., & Austin, S.B. (2020). Delivering case method teaching through online platforms: Adapting active learning techniques and maximizing learner engagement. *Educational Designer* 4(13)
- Dede, C. (2020). Reconceptualizing higher education and lifelong learning in the era of the synergistic digital economy. In C. Dede & J. Richards (Eds.), *The 60-Year Curriculum: New Models for Lifelong Learning in the Digital Economy*, pp. 1-24. New York, NY: Routledge.
- Reilly, J.M., McGivney, E., Dede, C., & Grotzer, T. (2020). Assessing science identity exploration in immersive virtual environments: A mixed methods approach, *The Journal of Experimental Education*, DOI: 10.1080/00220973.2020.1712313
- McCoy, A., Levy, A., Frumin, K., Lawrenz, F, Dede, C., Eisenkraft, A., Fischer, C., Fishman, B., & Foster, B. (2020). From the inside out: Teacher responses to the AP curriculum redesign. *Journal of Science Teacher Education*, 31(2), 208-225.
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- Wolbrink, T., von Schaik, S.M., (30 other authors), Dede, C., & Burns, J. P. (2019). Online learning and residents' acquisition of mechanical ventilation knowledge: Sequencing matters. *Critical Care Medicine* DOI: 10.1097/CCM.0000000000004071

- Reilly, J. & Dede, C. (2019). Stealth Assessment via Deep Learning in an Open-Ended Virtual Environment. In *Proceedings of the 12th International Conference on Educational Data Mining*, 643 – 646.
- Reilly, J. & Dede, C. (2019). Augmented Reality in Education. In A. Zhang & D. Cristol (Eds.), *Handbook of Mobile Teaching and Learning* (pp. 1337 – 1351). Singapore: Springer.
- Reilly, J. & Dede, C. (2019). Differences in Student Trajectories via Filtered Time Series Analysis in an Immersive Virtual World. In *Proceedings of the 9th International Conference on Learning Analytics & Knowledge* (pp. 130 – 134). New York, NY: ACM.
- Dede, C., Grotzer, T., Kamarainen, A., & Metcalf, S. (2019). Designing immersive authentic simulations that enhance motivation and learning: EcoLearn. In R. Feldman (Ed.), *Learning science: Theory, research, practice*, pp. 229-259. New York: McGraw Hill.
- Metcalf, S. J., Chen, J. A., Kamarainen, A. M., Frumin, K. M., Vickrey, T. L., Grotzer, T. A., & Dede, C. J. (2019). Transitions in Student Motivation During a MUVE-Based Ecosystem Science Curriculum: An Evaluation of the Novelty Effect. In K. Becnel (Ed.), *Emerging Technologies in Virtual Learning Environments* (pp. 96-115). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-7987-8.ch005
- Metcalf, S., Dickes, A., Brennan, K., & Dede, C. (2019, August). Design of an Agent-Based Visual Programming Tool for Elementary Ecosystem Science Learning. In *Proceedings of ACM International Computing Education Research conference (ICER'19)*, August 12-14, 2019, Toronto, ON, Canada. ACM, New York, NY, USA.
- Dickes, A.C., Kamarainen, A., Metcalf, S.J., Gun-Yildiz, S., Brennan, K., Grotzer, T., & Dede, C. (2019). Scaffolding ecosystems science practice by blending immersive environments and computational modeling. *British Journal of Educational Technology*, 50(5), 2181-2202. (DOI) - 10.1111/bjet.12806
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Dissertation

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