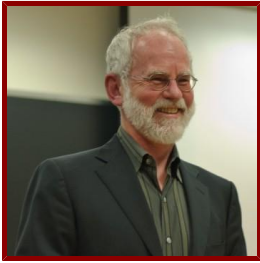


Stanford



Roy Pea

Director, H-STAR, David Jacks Professor of Education and Professor, by courtesy, of
Computer Science
Graduate School of Education

CONTACT INFORMATION

- **Admin. Support**

John Baker

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Bio

BIO

Roy Pea is David Jacks Professor of Education & Learning Sciences at Stanford University, School of Education, and Computer Science (Courtesy), and Director of the H-STAR Institute, Wallenberg Hall, 450 Serra Mall, Bldg. 160, Stanford, CA 94305; roypea@stanford.edu. His studies and publications in the learning sciences focus on advancing theories, research, tools and social practices of technology-enhanced learning of complex domains, including his role as Co-Director and Co-PI of the NSF-funded LIFE Center, which seeks to develop and test principles about the social foundations of human learning in informal and formal environments with the goal of enhancing human learning from infancy to adulthood. He is also founder and Director of Stanford's PhD program in Learning Sciences and Technology Design. He is co-author of the 2010 National Education Technology Plan for the US Department of Education, co-editor of Video Research in the Learning Sciences (2007), and co-author of the National Academy of Sciences book: How People Learn (2000). He is a Fellow of the National Academy of Education, Association for Psychological Science, the American Educational Research Association, and the Center for Advanced Study in the Behavioral Sciences. In 2004-2005, Roy was President of the International Society for the Learning Sciences. Roy served from 1999-2009 as a Director for Teachscape, a teacher professional development services company he co-founded with CEO Mark Atkinson.

ACADEMIC APPOINTMENTS

- Professor, Graduate School of Education
- Professor (By courtesy), Computer Science
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, H-STAR Institute (Human Sciences and Technologies Advanced Research), (2007- present)
- Director, Learning Sciences and Technology Design Doctoral Program, Stanford Graduate School of Education, (2001- present)

HONORS AND AWARDS

- Fellow, American Academy of Arts and Sciences (2019->)
- Inaugural Fellow, International Society of the Learning Sciences (2018->)
- Best Paper Award: "Collaboration Sensing" (with Schneider, B., Abu-El-Haija, S., Reesman, J.), Learning Analytics and Knowledge (LAK13) (2013)

- Visiting Fellow, Carnegie Foundation for the Advancement of Teaching (2008-2009)
- Fellow, American Educational Research Association (2008)
- Faculty Research Award, IBM (2005-2006)
- President, International Society for the Learning Sciences (2004-2005)
- Fellow, World Technology Network Award (2002)
- Fellow, National Academy of Education (2002)
- Fellow, Center for Advanced Study in the Behavioral Sciences (1995-1996)
- Fellow, Developmental Psychology, Association for Psychological Science (1995)
- Accelerating Innovation Award, Apple Computer, Advanced Technology Group (1990)
- Spencer Foundation Award to Young Scholars, New York University (1987)
- Schumann Fellowship, Harvard University Graduate School of Education (1986-1987)
- NIMH Postdoctoral Fellowship in Experimental Psychology, Rockefeller University (1978-1980)
- Rhodes Scholarship, University of Oxford (1974-1977)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Advisory Board, Education Programs, Education Programs, University of the People (<https://www.uopeople.edu/>), the World's First Tuition-Free Accredited Online University. (2018 - present)
- Advisory Board, Teachaids.org (2009 - present)
- National Advisory Board, Joan Ganz Cooney Center at Sesame Workshop (2010 - present)
- Advisory Board, Databrary, An NSF-NIH funded Project for creating an open video library of shared developmental science data and video coding tools. (2013 - 2018)
- Advisory Board, Education and Human Resources Directorate, National Science Foundation (2012 - 2019)
- Advisory Board, Kno.com (2010 - 2013)
- Executive Committee, Society for Learning Analytics Research (SoLAR) (2013 - present)
- NSF Task Force for Cyberlearning and Workforce Development, National Science Foundation (2010 - 2011)
- Advisory Board, STELLAR Network (2010 - 2013)
- International Scientific Advisory Board, CICERO Learning Network, Finland (2007 - 2012)
- Play and Learning Council Member, Fisher Price (2004 - 2006)
- National Internet Advisory Board, Scholastic Publishing (2002 - 2003)
- International Advisory Board., Lego Mindstorms (1997 - 1999)
- Executive Education Advisory Board, Ameritech (1994 - 1996)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- D.Phil., Oxon., University of Oxford, England , Developmental Psychology (1978)
- Bachelor of Arts, Michigan State University , "Cognition" - Dual Major in Philosophy, Psychology, Minor in Linguistics (Highest Honors) (1974)

PATENTS

- Patton, C., Roschelle, J., Pea, R.D., & Vahey, P.. "United States Patent US Patent #9,246,586 - Method and system for enabling and controlling communication typology, access to resources, and document flow in a distributed networking environment", SRI International, Jan 26, 2016
- Pea, R.D., Mills, M., and Rosen, J.. "United States "Interactive point-of-view authoring of digital video content using a resizable overlay window and a cylindrical layout"", Mar 3, 2015

- Pea, R.D., Mills, M., Hoffert, E., Rosen, J., and Dauber, K.. "United States Patent US Patent #8,645,832 B2. . "Methods and apparatus for interactive map-based analysis of digital video content.""", Leland Stanford Junior University, Feb 4, 2014
- Pea, R.D., Mills, M., Hoffert, E., Rosen, J., and Dauber, K.. "United States Patent 8,307,273 B2 "Methods and apparatus for interactive network sharing of digital video content""", Leland Stanford Junior University, Nov 6, 2012
- Patton, C., Roschelle, J., Pea, R.D., & Vahey, P.. "United States Patent 8,127,039 B2 "Method and system for enabling and controlling communication typology, access to resources, and document flow in a distributed networking environment""", SRI International, Feb 28, 2012
- Pea, R.D., Mills, M., Rosen, J.. "United States Patent 7,823,058 "Methods and apparatus for interactive point-of-view authoring of digital video content""", Leland Stanford Junior University, Oct 26, 2010
- Pea, R.D., Mills, M., Hoffert, E., Rosen, J., and Dauber, K.. "United States Patent 7,082,572 B2 "Methods and apparatus for interactive map-based analysis of digital video content""", Leland Stanford Junior University, Jul 25, 2006
- Pea, R.D., Atkinson, M., Skorski, M., et al.. "United States Patent 6,507,726 "Computer implemented education system""", Teachscape.com, Jan 14, 2003

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- <http://hstar.stanford.edu/>: <http://hstar.stanford.edu/>
- <http://life-slc.org>: <http://life-slc.org>

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences
- Child Development
- Collaborative Learning
- Data Sciences
- Diversity and Identity
- Leadership and Organization
- Race and Ethnicity
- Science Education
- Teachers and Teaching
- Technology and Education

CURRENT RESEARCH AND SCHOLARLY INTERESTS

learning sciences focus on advancing theories, research, tools and social practices of technology-enhanced learning of complex domains

Teaching

COURSES

2021-22

- Learning Sciences and Technology Design Research Seminar and Colloquium: EDUC 291 (Spr)
- Powerful Ideas for Learning Sciences and Technology Design: Sociocultural Practices of the Blues: EDUC 421 (Aut)

2020-21

- Learning Sciences and Technology Design Research Seminar and Colloquium: EDUC 291 (Aut)

2019-20

- Learning Sciences and Technology Design Research Seminar and Colloquium: EDUC 291 (Spr)
- Powerful Ideas for Learning Sciences and Technology Design: Sociocultural Practices of the Blues: EDUC 421 (Aut)

2018-19

- Learning Sciences and Technology Design Research Seminar and Colloquium: EDUC 291 (Win)
- Powerful Ideas for Learning Sciences and Technology Design: Distributed Intel & Installation Theory: EDUC 421A (Win)
- Powerful Ideas for Learning Sciences and Technology Design: Sociocultural Practices of the Blues: EDUC 421 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Xiao Ge, Xavier Monroe, Greses Perez, Soren Rosier

Doctoral Dissertation Advisor (AC)

Raquel Coelho, Brandon Reynante, Aditya Vishwanath

Master's Program Advisor

Jenny Han, Pablo Ocampo, Alex Stolyarik, Stephen Torres

Doctoral (Program)

Maxwell Bigman, Merve Cerit, Raquel Coelho, Daniela Ganelin, Bethanie Maple, Brandon Reynante, Aditya Vishwanath

Publications

PUBLICATIONS

- **Rethinking schools, rethinking learning** *PHI DELTA KAPPAN*
de Royston, M., Lee, C., Nasir, N., Pea, R.
2020; 102 (3): 8–13
- **Handbook of the Cultural Foundations of Learning**
edited by Nasir, N., Lee, C., Pea, R., Mckinney de Royston, M.
Routledge.2020
- **Mike Eisenberg: A One of a Kind Pioneer in the Learning Sciences** *JOURNAL OF THE LEARNING SCIENCES*
Blikstein, P., Kafai, Y., Pea, R.
2019
- **Learning With Media Harnessing Viewpoint and Motion to Generate Fields of Potential Action** *JOURNAL OF MEDIA PSYCHOLOGY-THEORIES METHODS AND APPLICATIONS*
Lewis, S., Lindgren, R., Wang, S., Pea, R. D.
2019; 31 (3): 128–36
- **DOI: 10.1159/000496073** *The living hand of the past: The role of technology in development*
Pea, R., Cole, M.
2019; 62 (1-2): 14-39
- **Immersive Virtual Reality Field Trips Facilitate Learning About Climate Change** *FRONTIERS IN PSYCHOLOGY*
Markowitz, D. M., Laha, R., Perone, B. P., Pea, R. D., Bailenson, J. N.
2018; 9
- **Leveraging mobile eye-trackers to capture joint visual attention in co-located collaborative learning groups** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
Schneider, B., Sharma, K., Cuendet, S., Zufferey, G., Dillenbourg, P., Pea, R.
2018; 13 (3): 241–61
- **Learning Analytics in Education**
edited by Niemi, D., Pea, R., Saxberg, B., Clark, R. E.
Information Age Publishing.2018

- **Learning Analytics in Education INTRODUCTION** *LEARNING ANALYTICS IN EDUCATION*
Niemi, D., Pea, R. D., Piety, P., Niemi, D., Pea, R. D., Saxberg, B., Clark, R. E.
2018: XI-XIX
- **UNDERSTANDING LEARNING ANALYTICS ACROSS PRACTICES** *LEARNING ANALYTICS IN EDUCATION*
Piety, P. J., Pea, R. D., Niemi, D., Pea, R. D., Saxberg, B., Clark, R. E.
2018: 215–32
- **Immersive Virtual Reality Field Trips Facilitate Learning About Climate Change.** *Frontiers in psychology*
Markowitz, D. M., Laha, R. n., Perone, B. P., Pea, R. D., Bailenson, J. N.
2018; 9: 2364
- **Using Mobile Eye-Trackers to Unpack the Perceptual Benefits of a Tangible User Interface for Collaborative Learning** *ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION*
Schneider, B., Sharma, K., Cuendet, S., Zufferey, G., Dillenbourg, P., Pea, R.
2016; 23 (6)
- **Designing for deeper learning in a blended computer science course for middle school students** *COMPUTER SCIENCE EDUCATION*
Grover, S., Pea, R., Cooper, S.
2015; 25 (2): 199–237
- **Toward collaboration sensing** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
Schneider, B., Pea, R.
2014; 9 (4): 371-395
- **Understanding video tools for teaching: Mental models of technology affordances as inhibitors and facilitators of lesson planning in history and language arts** *STUDIES IN EDUCATIONAL EVALUATION*
Krauskopf, K., Zahn, C., Hesse, F. W., Pea, R. D.
2014; 43: 230-243
- **Mobile Learning** *CAMBRIDGE HANDBOOK OF THE LEARNING SCIENCES, 2ND EDITION*
Sharples, M., Pea, R., Sawyer, R. K.
2014: 501–21
- **Video research in the learning sciences**
Goldman, R., Pea, R., Barron, B., Derry, S. J.
Routledge.2014
- **Real-time mutual gaze perception enhances collaborative learning and collaboration quality** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
Schneider, B., Pea, R.
2013; 8 (4): 375-397
- **Preparing for Future Learning with a Tangible User Interface: The Case of Neuroscience** *IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES*
Schneider, B., Wallace, J., Blikstein, P., Pea, R.
2013; 6 (2): 117-129
- **Computational Thinking in K-12: A Review of the State of the Field** *EDUCATIONAL RESEARCHER*
Grover, S., Pea, R.
2013; 42 (1): 38-43
- **How to improve collaborative learning with video tools in the classroom? Social vs. cognitive guidance for student teams** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
Zahn, C., Krauskopf, K., Hesse, F. W., Pea, R.
2012; 7 (2): 259-284
- **Media Use, Face-to-Face Communication, Media Multitasking, and Social Well-Being Among 8- to 12-Year-Old Girls** *DEVELOPMENTAL PSYCHOLOGY*
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2012; 48 (2): 327-336

- **Distributed by Design: On the Promises and Pitfalls of Collaborative Learning with Multiple Representations** *JOURNAL OF THE LEARNING SCIENCES*
White, T., Pea, R.
2011; 20 (3): 489-547
- **Beyond participation to co-creation of meaning: mobile social media in generative learning communities** *SOCIAL SCIENCE INFORMATION SUR LES SCIENCES SOCIALES*
Lewis, S., Pea, R., Rosen, J.
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- **Conducting Video Research in the Learning Sciences: Guidance on Selection, Analysis, Technology, and Ethics** *JOURNAL OF THE LEARNING SCIENCES*
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2010; 19 (1): 3-53
- **Comparing Simple and Advanced Video Tools as Supports for Complex Collaborative Design Processes** *JOURNAL OF THE LEARNING SCIENCES*
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- **Integrating Co-Design Practices into the Development of Mobile Science Collaboratories** *IEEE International Conference on Advanced Learning Technologies*
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- **Video Collaboratories for Research and Education: An Analysis of Collaboration Design Patterns** *IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES*
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- **Cognitive technologies for establishing, sharing and comparing perspectives on video over computer networks** *SOCIAL SCIENCE INFORMATION SUR LES SCIENCES SOCIALES*
Pea, R., Lindgren, R., Rosen, J.
2008; 47 (3): 353-370
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- **Video-as-Data and Digital Video Manipulation Techniques for Transforming Learning Sciences Research, Education, and Other Cultural Practices** *INTERNATIONAL HANDBOOK OF VIRTUAL LEARNING ENVIRONMENTS, VOL I*
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Edelson, D. C., PEA, R. D., Gomez, L. M.
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- **The greenhouse effect visualizer: A tool for the science classroom** *4th Conference on Education - The Globe Program*
GORDIN, D. N., PEA, R. D.
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- **The Greenhouse Effect Visualizer: A tool for the science classroom** *4th Conference on Education - Opening the Doors to the Future: Education in the Classroom and Beyond / 75th AMS Annual Meeting*
GORDIN, D. N., PEA, R. D.
AMER METEOROLOGICAL SOCIETY.1995: B47-B52
- **Prospects for scientific visualization as an educational technology** *JOURNAL OF THE LEARNING SCIENCES*
GORDIN, D. N., PEA, R. D.
1995; 4 (3): 249-?
- **LEARNING SCIENTIFIC CONCEPTS THROUGH MATERIAL AND SOCIAL ACTIVITIES - CONVERSATIONAL ANALYSIS MEETS CONCEPTUAL CHANGE** *EDUCATIONAL PSYCHOLOGIST*
PEA, R. D.
1993; 28 (3): 265-277
- **THE COLLABORATIVE VISUALIZATION PROJECT** *COMMUNICATIONS OF THE ACM*
PEA, R. D.
1993; 36 (5): 60-63
- **LEARNING THROUGH MULTIMEDIA** *IEEE COMPUTER GRAPHICS AND APPLICATIONS*
PEA, R. D.
1991; 11 (4): 58-66
- **TOOLS FOR BRIDGING THE CULTURES OF EVERYDAY AND SCIENTIFIC THINKING** *JOURNAL OF RESEARCH IN SCIENCE TEACHING*
Hawkins, J., PEA, R. D.
1987; 24 (4): 291-307
- **COGNITIVE TECHNOLOGIES FOR WRITING** *REVIEW OF RESEARCH IN EDUCATION*
PEA, R. D., KURLAND, D. M.
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- **Beyond Amplification: Using the Computer to Reorganize Mental Functioning** *EDUCATIONAL PSYCHOLOGIST*
Pea, R. D.
1985; 20 (4): 167-82
- **ORIGINS OF VERBAL LOGIC - SPONTANEOUS DENIALS BY 2-YEAR AND 3-YEAR OLDS** *JOURNAL OF CHILD LANGUAGE*
PEA, R. D.
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- **LOGIC IN EARLY CHILD LANGUAGE** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
PEA, R. D.
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- **Evaluating the Effect of Concussion Education Programs on Intent to Report Concussion in High School Football.** *Journal of athletic training*
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- **Constantly connected: At what price and with what rewards?**

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 - **Digital Video Tools in the Classroom: How to Support Meaningful Collaboration and Critical Advanced Thinking of Students?** *NEW SCIENCE OF LEARNING: COGNITION, COMPUTERS AND COLLABORATION IN EDUCATION*
Zahn, C., Krauskopf, K., Hesse, F. W., Pea, R., Khine, M. S., Saleh, I. M.
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 - **Faculty Development to Change the Paradigm of Communication Skills Teaching in Oncology** *JOURNAL OF CLINICAL ONCOLOGY*
Back, A. L., Arnold, R. M., Baile, W. F., Tulskey, J. A., Barley, G. E., Pea, R. D., Fryer-Edwards, K. A.
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 - **WILD for Learning Interacting Through New Computing Devices Anytime, Anywhere** *CAMBRIDGE HANDBOOK OF THE LEARNING SCIENCES*
Pea, R. D., Maldonado, H., Sawyer, R. K.
2006: 427–41
 - **Video-as-data and digital video manipulation techniques for transforming learning sciences research, education, and other cultural practices** *The international handbook of virtual learning environments*
Pea, R. D.
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 - **Foundations and Opportunities for an Interdisciplinary Science of Learning** *CAMBRIDGE HANDBOOK OF THE LEARNING SCIENCES*
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2006: 19–34
 - **Advanced digital video technologies to support collaborative learning in school education and beyond** *International Conference on Computer Supported Collaborative Learning*
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 - **Emerging social engineering in the wireless classroom** *6th International Conference of the Learning Sciences*
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Book Review Authored by: PEA, R.
1987; 3 (1): 129-34
- **MERDS THAT LAUGH DONT LIKE MUSHROOMS - EVIDENCE FOR DEDUCTIVE REASONING BY PRESCHOOLERS** *DEVELOPMENTAL PSYCHOLOGY*
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- **CAN INFORMATION-THEORY EXPLAIN EARLY WORD CHOICE** *JOURNAL OF CHILD LANGUAGE*
PEA, R. D.
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