Stanford
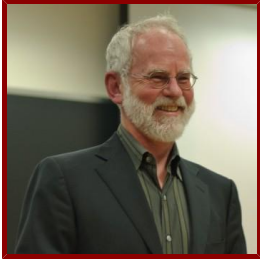
Roy Pea

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

  Email jwbaker1@stanford.edu

Bio

BIO

Roy Pea is David Jacks Professor of Education & Learning Sciences at Stanford University, School of Education, and Computer Science (Courtesy), and has been 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 (2004-2014), which sought 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 Mirrors of Minds: Patterns of Experience in Educational Computing (1987), Video Research in the Learning Sciences (2007), Learning Analytics in Education (2018), The Routledge Handbook of the Cultural Foundations of Learning (2020), AI in Education (2022), and co-author of the National Academy of Sciences books: How People Learn (2000), and Planning for Two Transformations in Education and Learning Technology (2003). He is a Fellow of the American Academy of Arts and Sciences, 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 video-based 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, Learning Sciences and Technology Design Doctoral Program, Stanford Graduate School of Education, (2001- present)
- Director, H-STAR Institute (Human Sciences and Technologies Advanced Research), (2007-2021)

HONORS AND AWARDS

- McGraw Education Prize, https://www.mcgrawprize.com/ U. Pennsylvania, Graduate School of Education (2022)

- 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

- Curriculum and Instruction

- Data Sciences

- Diversity and Identity

- Environmental Education

- Equity in Education

- 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

2023-24

- Introduction to CSCL: Computer-Supported Collaborative Learning: CS 498C, EDUC 315A (Win)

- 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)

2022-23

- Introduction to CSCL: Computer-Supported Collaborative Learning: CS 498C, EDUC 315A (Win)

- 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)

2021-22

- Introduction to CSCL: Computer-Supported Collaborative Learning: CS 498C, EDUC 315A (Win)

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

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Emma Humphris

Master's Program Advisor

Philip Baillargeon, Evan Baldonado, Cindy Liu, Emily Liu, Peng Hao Lu, Dominik Moehrle

Doctoral Dissertation Co-Advisor (AC)

Miroslav Suzara

Doctoral (Program)

Maxwell Bigman, Merve Cerit, Bethanie Drake-Maples, Daniela Ganelin, Jaylen Pittman

Publications

PUBLICATIONS

- **Participating in Two Video Concussion Education Programs Sequentially Improves Concussion-Reporting Intention.** *Neurotrauma reports*
  Daneshvar, D. H., Baugh, C. M., Lama, R. D., Yutsis, M., Pea, R. D., Goldman, S., Grant, G. A., Cantu, R. C., Sanders, L. M., Zafonte, R. D., Hainline, B., Sorcar, P.
  2021; 2 (1): 581-591

- **Participating in Two Video Concussion Education Programs Sequentially Improves Concussion-Reporting Intention** *NEUROTRAUMA REPORTS*
  Daneshvar, D. H., Baugh, C. M., Lama, R. D., Yutsis, M., Pea, R. D., Goldman, S., Grant, G. A., Cantu, R. C., Sanders, L. M., Zafonte, R. D., Hainline, B., Sorcar, P.
  2021; 2 (1): 581-591

- **Rethinking Learning: What the Interdisciplinary Science Tells Us** *EDUCATIONAL RESEARCHER*
  Nasir, N., Lee, C. D., Pea, R., McKinney de Royston, M.
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- **Athlete Enjoyment of Prior Education Moderates change in Concussion-Reporting Intention after Interactive Education.** *Inquiry : a journal of medical care organization, provision and financing*
  Daneshvar, D. H., Baugh, C. M., Yutsis, M., Pea, R. D., Goldman, S., Grant, G. A., Cantu, R. C., Sanders, L. M., Chen, C. L., Lama, R. D., Zafonte, R. D., Sorcar, P.
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- **Rethinking schools, rethinking learning** *PHI DELTA KAPPAN*

de Royston, M., Lee, C., Nasir, N., Pea, R.

2020; 102 (3): 8–13

- **Personal Perspectives on the Emergence of the Learning Sciences: 1970s-2005** *FRONTIERS IN EDUCATION*

  Pea, R., Linn, M. C.

  2020; 5

- **Handbook of the Cultural Foundations of Learning**

  edited by Nasir, N., Lee, C., Pea, R., Mckinney de Royston, M.

  Routledge.2020

- **Routledge Handbook of the Cultural Foundations of Learning**

  edited by Pea, R.

  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.

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- **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: 2364

- **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.

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- **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.

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- **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.

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- **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*

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- **Toward collaboration sensing** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
  Schneider, B., Pea, R.
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- **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.
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- **Mobile Learning** *CAMBRIDGE HANDBOOK OF THE LEARNING SCIENCES, 2ND EDITION*
  Sharples, M., Pea, R., Sawyer, R. K.
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- **Video research in the learning sciences**
  Goldman, R., Pea, R., Barron, B., Derry, S. J.
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- **Real-time mutual gaze perception enhances collaborative learning and collaboration quality** *INTERNATIONAL JOURNAL OF COMPUTER-SUPPORTED COLLABORATIVE LEARNING*
  Schneider, B., Pea, R.
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- **Preparing for Future Learning with a Tangible User Interface: The Case of Neuroscience** *IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES*
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- **Computational Thinking in K-12: A Review of the State of the Field** *EDUCATIONAL RESEARCHER*
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- **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.
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- **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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- **Distributed by Design: On the Promises and Pitfalls of Collaborative Learning with Multiple Representations** *JOURNAL OF THE LEARNING SCIENCES*
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- **Beyond participation to co-creation of meaning: mobile social media in generative learning communities** *SOCIAL SCIENCE INFORMATION SUR LES SCIENCES SOCIALES*
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- **Conducting Video Research in the Learning Sciences: Guidance on Selection, Analysis, Technology, and Ethics** *JOURNAL OF THE LEARNING SCIENCES*
  Derry, S. J., Pea, R. D., Barron, B., Engle, R. A., Erickson, F., Goldman, R., Hall, R., Koschmann, T., Lemke, J. L., Sherin, M. G., Sherin, B. L.
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- **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

- **WILD for Learning: Interacting Through New Computing Devices Anytime, Anywhere** *The Cambridge handbook of The Learning Sciences*
  pea, R. D., maldonado, H.
  Cambridge University Press.2006; 1st: 427–441

- **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*
  Pea, R. D., Weiss, J., Nolan, J., Hunsinger, J., Trifonas, P.
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- **Functioning in the wireless classroom** *2nd IEEE International Workshop on Wireless and Mobile Technologies in Education (WMTE)*
  Goldman, S. V., Pea, R., Maldonado, H., Martin, L., White, T.
  IEEE COMPUTER SOC.2004: 75–82

- **The diver project: Interactive digital video repurposing** *IEEE MULTIMEDIA*
  Pea, R., Mills, M., ROSEN, J., Dauber, K., Effelsberg, W., Hoffert, E.
  2004; 11 (1): 54-61

- **The social and technological dimensions of scaffolding and related theoretical concepts for learning, education, and human activity** *JOURNAL OF THE LEARNING SCIENCES*
  Pea, R. D.
  2004; 13 (3): 423-451

- **Changing how and what children learn in school with computer-based technologies** *FUTURE OF CHILDREN*
  Roschelle, J. M., PEA, R. D., Hoadley, C. M., GORDIN, D. N., Means, B. M.
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- **Toward a learning technologies knowledge network** *ETR&D-EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*
  PEA, R. D., Tinker, R., Linn, M., Means, B., Bransford, J., Roschelle, J., Hsi, S., Brophy, S., Songer, N.
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- **Addressing the challenges of inquiry-based learning through technology and curriculum design** *JOURNAL OF THE LEARNING SCIENCES*
  Edelson, D. C., GORDIN, D. N., PEA, R. D.
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- **The collaboratory notebook** *COMMUNICATIONS OF THE ACM*
  Edelson, D. C., PEA, R. D., Gomez, L. M.
  1996; 39 (4): 32-33

- **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.
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- **LEARNING SCIENTIFIC CONCEPTS THROUGH MATERIAL AND SOCIAL ACTIVITIES - CONVERSATIONAL ANALYSIS MEETS CONCEPTUAL CHANGE** *EDUCATIONAL PSYCHOLOGIST*
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- **THE COLLABORATIVE VISUALIZATION PROJECT** *COMMUNICATIONS OF THE ACM*
  PEA, R. D.
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- **LEARNING THROUGH MULTIMEDIA** *IEEE COMPUTER GRAPHICS AND APPLICATIONS*
  PEA, R. D.
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- **TOOLS FOR BRIDGING THE CULTURES OF EVERYDAY AND SCIENTIFIC THINKING** *JOURNAL OF RESEARCH IN SCIENCE TEACHING*
  Hawkins, J., PEA, R. D.
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- **COGNITIVE TECHNOLOGIES FOR WRITING** *REVIEW OF RESEARCH IN EDUCATION*
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- **Beyond Amplification: Using the Computer to Reorganize Mental Functioning** *EDUCATIONAL PSYCHOLOGIST*
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- **ORIGINS OF VERBAL LOGIC - SPONTANEOUS DENIALS BY 2-YEAR AND 3-YEAR OLDS** *JOURNAL OF CHILD LANGUAGE*
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- **LOGIC IN EARLY CHILD LANGUAGE** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
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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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- **Are we 'Beyond being there' yet? Towards better interweaving epistemic and social aspects of virtual reality conferencing**
  Lahlou, S., Pea, R., Heitmayer, M., Russell, M. G., Schimmelpfennig, R., Yamin, P., Everri, M., Cordelois, A., Dawes, A. P., ACM
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- **Constantly connected: At what price and with what rewards?**
  Mark, G., Dey, A., Czerwinski, M., Pang, A., Bell, G., Mazmanian, M., Pea, R., ACM
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- **Remedying Misperceptions of Computer Science among Middle School Students**
  Grover, S., Pea, R., Cooper, S., Dougherty, J., Nagel, K., Decker, A., Eiselt, K.
  ASSOC COMPUTING MACHINERY.2014: 343–48

- **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., Tulsky, J. A., Barley, G. E., Pea, R. D., Fryer-Edwards, K. A.
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- **Mathematics Worth Knowing, Resources Worth Growing, Research Worth Noting: A Response to the National Mathematics Advisory Panel Report** *EDUCATIONAL RESEARCHER*

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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.
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- **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*
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- **Emerging social engineering in the wireless classroom** *6th International Conference of the Learning Sciences*
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- **A walk on the WILD side: How wireless handhelds may change computer-supported collaborative learning** *International Journal of Cognition and Technology*
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Roschelle, J., Patton, C., Pea, R., Milrad, M., Hoppe, U., Kinshuk
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- **LINGUISTIC AND LOGICAL FACTORS IN RECOGNITION OF INDETERMINACY** *COGNITIVE DEVELOPMENT*
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