

February, 2012

## Bruce D. Homer

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### Current Position

*Associate Professor*, Ph.D. Program in Educational Psychology, The Graduate Center, CUNY

### Education

<b>Ph. D.</b> University of Toronto (Human Development & Applied Psychology)	2000
<b>M.A.</b> University of Toronto (Applied Cognitive Science)	1995
<b>B.Sc.</b> Dalhousie University (Psychology - Honours)	1992

### Grants & Awards: Current

2012-2013	<i>Project EDGE: Educational Data Mining of Google App Inventor Events</i> Jan L. Plass (PI) & Bruce D. Homer (Co-PI). Google Research Grant (\$42,000).
2009-2012	<i>Molecules &amp; Minds: Developing Bridging Scaffolds to Improve Chemistry Learning.</i> [#R305A090203] Catherine Milne (PI), Jan L. Plass, Bruce D. Homer & Trace Jordan (Co-PI's). Institute for Education Sciences, Mathematics and Science Education Research Program. (\$1.45 million)
2008-2012	<i>Interdisciplinary Postdoctoral Research Training Fellowship in the Educational Sciences: IPoRT Fellowships.</i> Bruce D. Homer (PI), Jan Plass & Bert Flugman (Co-PI's) (#R305B080007). Institute for Education Sciences Postdoctoral Training Grant. (\$650,020)

### Grants & Awards: Completed

2011	<i>SBIR Phase I: Martha Madison's Marvelous Machines</i> [IP-1113493] (with Second Avenue Software, Rochester U). V. VanVoorhis (PI), Jan L. Plass & Bruce D. Homer (Co-PIs). National Science Foundation. (\$150,000)
2010-2011	<i>Identify Developmental Patterns of Eye Movements in Young Readers.</i> Bruce D. Homer (PI) & Dr. Linnea Ehri (Co-PI). Graduate Research and Technology Initiative (GRTI) equipment grant. (\$56,329)
2008-2011	<i>The Games for Learning Institute (G4LI).</i> Ken Perlin & Jan Plass (PIs). Microsoft Research Foundation. [Role on Grant: <i>Co-Primary Investigator</i> with a sub-contract to investigate educational outcomes.] (\$1.5 million)
2010	<i>Distinguished Visiting Lecturer</i> , University of Manitoba, Winnipeg MB.

- 2009-2010 *Theory of Mind in School-Age Children: A Meta-Analysis*. Bruce D. Homer (PI). (#62479-00 40). PSC-CUNY Research Award. (\$2600)
- 2005-2009 *Molecules and Minds: Simulations for Chemistry Education*. [#R305K050140] Jan Plass (PI), Bruce D. Homer, Trace Jordan & Catherine Milne (Co-PI's). Institute for Education Sciences, Mathematics and Science Education Research Program. (\$1,112,774)
- 2007-2008 *Using Eyetracking to Assess Participants' Visual Attention When Using Chemistry Simulations: A Pilot Study*. Catherine Milne (PI), Bruce D. Homer, Trace Jordan, Jan Plass & Minchi Kim (Co-PI's). Steinhardt IDEA Grant. (\$5000)
- 2004-2007 *Development of a Mind-Body Center at NYUSOM*. [NS08594] Robert Cancro (PI). National Institute of Neurological Disorders and Stroke, Center Grant. [Role on Grant: *Program Scientist*] (\$1,701,135)
- 2004-2007 *Stress, Methamphetamine Abuse and Social Cognitions among Gay/Bisexual men*. Bruce D. Homer & Perry Halkitis (Co-PI's). [Project funded by the *Mind-Body Research Center at NYUSOM*.]
- 2002-2007 *Center for Research on Culture, Development and Education (CRCDE)*. [#0218159] National Science Foundation, Center Grant. Catherine Tamis-LeMonda (PI), Niobe Way, Diane Hughes, Joshua M. Aronson, Hirokazu Yoshikawa (Co-PIs). [Role on Grant: *Co-Investigator*] (\$2,500,000)
- 2003-2004 *Cognitive Load and Social Presence in Multimedia Learning: An Experimental Investigation of the Effective Use of Web-Based Video*. Bruce D. Homer (PI). Steinhardt School of Education Instructional Technology Challenge Grant. (\$7100)
- 2002 & 2004 Nominated for the *John Merck Scholar's Program in the Biology of Developmental Disabilities in Children* (Cognitive Science)
- 2001-2003 *A Microgenetic Training Study of L1 and L2 Literacy Acquisition in Chinese-English Bilingual Children*. Bruce D. Homer (PI). New York University Research Challenge Fund project grant. (\$5000)
- 2001-2003 *An Experimental Study of Linguistic Mediation in Young Children's Symbolic Understanding*. Bruce D. Homer & Katherine Nelson (Co-Investigators). New York University School of Education Research Challenge Fund project grant. (\$2827)
- 2001-2002 *New York University Center for Research on Culture, Development, and Education Planning Grant*. Catherine Tamis-LeMonda (PI), Niobe Way, Diane Hughes, Joshua M. Aronson, Hirokazu Yoshikawa (Co-PIs). [Role on Grant: *Co-Investigator*] (\$90,000)
- 2000-2001 *Developing a Computer Animated Psychosocial Assessment Tool for use With Children who have Suffered an Acquired Brain Injury*. Jason Ramsay, Bruce D. Homer & Gerald McFadden (Co-Investigators). Symantec Corporation project grant. (\$4000)

- 2000-2002 *Social Sciences and Humanities Research Council of Canada* Postdoctoral Fellowship (with Katherine Nelson, Graduate Center of City University of New York) [Terminated in 2000 to accept faculty position]
- 1996-1998 *Social Sciences and Humanities Research Council of Canada* Doctoral Fellowship
- 1996-1997 *Ontario Graduate Scholarship* (declined)
- 1995-1996 *OISE Graduate Assistantship* (declined)
- 1994-1995 *OISE Graduate Assistantship*
- 1993-1996 *University of Toronto Research Fellowship* (with Janet W. Astington)

### Professional Experience

- 08/07-present: *Associate Professor*, Educational Psychology Program (*Learning, Development, & Instruction Specialization*), The Graduate Center, CUNY
- 09/06-07/07: *Research & Clinical Associate Professor*, Dept. of Applied Psychology, New York University
- 09/00-08/06: *Assistant Professor*, Dept. of Applied Psychology, New York University
- 01/00-08/00: *Social Sciences and Humanities Research Council of Canada Postdoctoral Fellow*, Dept. of Psychology, Graduate School and University Center, City University of New York
- 09/98-08/99: *Research Fellow*, Dept. of Human Development and Applied Psychology, and Knowledge Media Design Institute, University of Toronto
- 10/96-06/98: *Research Consultant*, Dept. of Human Development and Applied Psychology, University of Toronto

### Consulting

- 2010-present: Playground Sessions, Inc. [consulting on the development of educational music software with “game-like” elements]
- 2010-present: Educational Consultant on US Department of Education Ready to Learn Grant, *UMIGO: yoU Make It GO* [for the development of trans-media curriculum to support acquisition of math skills in children ages 2-8). (Parke Richeson, WTTW, Project Director; Michael Polis, Wildbrain, Creative Partner).
- 2009-2010: Educational Consultant on Motorola Foundation Innovation grant, *Designing Educational Games for Mobile Devices*. (Jan Plass, PI)
- 2007-2009: Educational Consultant for *Smart.fm/CEREGO*.

### Publications in Refereed Journals

\* student co-author; \*\*postdoctoral fellow co-author

- Homer, B.D., Hayward, E.O, Frye, J. & Plass, J.L. (2011). *Gender and Player Characteristics in Video Game Play of Preadolescents*. Manuscript submitted for publication.
- Homer, B.D., Halkitis, P.N., Moeller, R.W\*. & Solomon, T.M.\* (2011). *The Effects of Methamphetamine Abuse and HIV on Social Cognition*. Manuscript submitted for publication.

- Plass, J.L., O'Keefe, P.\*\* , Homer, B.D., Hayward, E.O.\* , Stein, M.\* & Perlin, K. (2011). *Motivational and Educational Outcomes Associated with Individual, Competitive, and Collaborative Game Play*. Manuscript submitted for publication.
- Hayward, E.O. & Homer, B.D. (2011). *Measurement of Advanced Theory of Mind in School-Age Children: Investigating the Validity of a Unified Construct*. Manuscript submitted for publication.
- Homer, B.D., Petroff, N.\* & Hayward, E.O.\* (2012). Linguistic Mediation of Children's Performance in a New Symbolic Understanding Task. *Journal of Cognition and Development*.
- Homer, B.D., Donnelly, S.\* , & Miller, R.\* (in press). Commentary Proposal on Frost: Insights from Reading Development. [Commentary] *Behavioral and Brain Sciences*.
- Plass, J.L., Milne, C., Homer, B.D., Jordan, T., Schwartz, R.N.\*\* , Hayward, E., O.\* , Verkuilen, J., Wang, Y.\*\* , Ng, F. & Barrientos, J. (in press). *Investigating the Effectiveness of Computer Simulations for Chemistry Learning*. *Journal of Research in Science Teaching*.
- Um, E.\* , Plass, J.L., Hayward, E.O.\* & Homer, B.D. (in press). Emotional Design in Multimedia Learning. *Journal of Educational Psychology*.
- Homer, B. D. & Plass, J.L. (2010). Expertise Reversal for Iconic Representations in Science Visualizations. *Instructional Science*, 38, 259-276.
- Homer, B.D. & Nelson, K.N. (2009). Symbols, signs and models: Language and the development of dual representation. *Journal of Cognition and Development*, 10, 115-134.
- Plass, J.L., Homer, B.D., & Hayward, E.\* (2009). Design Factors for Educationally Effective Animations and Simulations. *Journal of Computing in Higher Education*, 31-61.
- Hayward, E.\* & Homer, B.D. (2009). [Book Review of Infants' sense of people: Precursors to a theory of mind by Maria Legerstee]. *Infant and Child Development*, 18, 370-372.
- Halkitis, P.N., Solomon, T.M.\* , Moeller, R.W.\* , Doig, S.A.\* , Espinosa, L.S.\* , Siconolfi, D.\* , & Homer, B.D. (2009). Methamphetamine use among gay, bisexual and non-identified men-who-have-sex-with-men: An analysis of daily patterns and contexts for use. *Journal of Health Psychology*, 14(2), 222-231.
- Plass, J.L., Homer, B.D., Milne, C., Jordan, T., Kalyuga, S., Kim, M.\*\* & Lee, H.\* (2009). Design Factors for Effective Science Simulations: Representation of Information. *International Journal of Gaming and Computer-Mediated Simulations*, 1(1), 16-35.
- Homer, B.D., Solomon, T.M.\* , Moeller, R.W.\* , Macia, A.\* , DeRaleau, L.\* & Halkitis, P.N. (2008). Methamphetamine Abuse and Impairment of Social Functioning: A Review of the Underlying Neurophysiological Causes and Behavioral Implications. *Psychological Bulletin*, 134(2), 301-310.
- Homer, B.D., Plass, J.L., & Blake, L.\* (2008). The effects of video on cognitive load and social presence in computer-based multimedia-learning. *Computers in Human Behavior*, 24(3), 786-797.
- Lee, H.\* , Plass, J.L., & Homer, B.D. (2006). Optimizing cognitive load for learning from computer-based science simulations. *Journal of Educational Psychology*. 902-913.
- Grazzani Gavazzi, I., Ornaghi, V., De Santis, N., Homer, B.D., & Brockmeier J., (2003). Lo sviluppo della consapevolezza linguistica: L'origine dei nomi in un confronto culturale Italia-Canada [The development of language awareness: The origin of words and names in a cultural comparison between Italy and Anglophone Canada]. *Età Evolutiva*, 76, 5-16.

- Xue, Q.\*, & Homer, B.D. (2004). Literacy and metalinguistic awareness in Chinese-English bilingual children. *International Journal of Psychology*, 39(5-6), 100. [Abstract]
- Fen, Xu, Homer, B.D., & Lee, K. (2002). [The effects of literacy on Chinese children's early word awareness.] *Psychological Science China*, 25, 672-675. [Chinese manuscript]
- Astington, J.W., Pelletier, J., & Homer, B.D. (2002). Theory of mind and epistemological development: The relation between children's second-order false-belief understanding and their ability to reason about evidence. *New Ideas in Psychology*, 20, 131-144.
- Homer, B.D., Brockmeier, J., Kamawar, D. & Olson, D.R. (2001). Between realism and nominalism: Learning to think about words and names. *Genetic, Social, and General Psychology Monographs*, 127(1), 5-25.
- Ramsay, J.T., McFadden, G. & Homer, B.D. (2001). Psychosocial deficits and theory of mind in survivors of brain injury. *Cognitive Connections: A Newsletter for Professionals Working with Survivors of TBI*, 2-4.
- Homer, B.D. & Ramsay, J.T. (1999). Making the implicit explicit: The role of learning. *Behavioral and Brain Science*, 22, 770. [Commentary]
- Homer, B.D. & Olson, D.R. (1999). The role of literacy in children's concept of word. *Written language and literacy*, 2, 113-140.
- Olson, D. R. & Homer, B. (1998). How children create knowledge. Essay review of K. Nelson, *Language in cognitive development: Emergence of the mediated mind. Cognitive Development*, 13, 249-255.
- Homer, B.D. & Astington, J.W. (1997). The development of children's understanding of second-order beliefs. *Canadian Psychology*, 38(2a), 89. [Abstract]
- Ramsay, J.T. & Homer, B.D. (1997). Against suppression and clamping: A commentary on Glenberg. *Behavioral and Brain Sciences*, 20, 33. [Commentary]
- Olson, D.R. & Homer, B.D. (1996). Understanding that looking causes knowing. *Behavioral and Brain Sciences*, 19, 135. [Commentary]
- Olson, D.R. & Homer, B.D. (1996). Literacy and children's conceptions of language. *International Journal of Psychology*, 31, 441. [Abstract]
- Cameron, C.A., Lee, K., Marshall, C., & Homer, B.D. (1994). The development of telephone communication skills in young children. *Canadian Psychology*, 35(2a), 103. [Abstract]

### **Journal Articles Reprinted in Edited Volumes**

- Plass, J.L., Homer, B.D., Milne, C., Jordan, T., Kalyuga, S., Kim\*\*, M., & Lee\*, H.J. (2011). In R. Ferdig (Ed.), *Discoveries in Gaming and Computer-Mediated Simulations: New Interdisciplinary Applications*. Design Factors for Effective Science Simulations: Representation of Information, pp. 16–35. Hershey, PA: IGI Global. (Reprinted from *International Journal of Gaming and Computer-Mediated Simulations*, 1(1), 16–35).

### **Books and Book Chapters**

- Brockmeier, J. & Homer, B.D. (forthcoming). Narrative in education. To appear in Antonietti, A., Confalonieri, E. & Marchetti, A. (Eds.), *Metarepresentation and narrative in educational settings: A cultural framework for reflective thinking*. Cambridge, UK: Cambridge University Press.

- Plass, J.L., Homer, B.D., Chang, Y.K., Frye, J., Kaczetow, W., Isbister, K., & Perlin, K. (forthcoming). Metrics to Assess Learning and Measure Learner Variables in Simulations and Games. To appear in M.S. El-Nasr, A. Drachen, A. Canossa & K. Isbister (Eds.), *Game Telemetry and Metrics: Maximizing the Value of Player Data*. New York, NY: Springer.
- Homer, B.D. (2009). Literacy and Metalinguistic Development. In D.R. Olson & N. Torrance (Eds.) *The Cambridge Handbook of Literacy* (pp. 487-500). Cambridge, MA: Cambridge University Press.
- Homer, B.D. & Hayward, E.\* (2008). Cognitive and Representational Development in Children. In Cartwright, K.B. (Ed.), *Literacy Processes: Cognitive Flexibility in Learning and Teaching* (pp. 19-41). New York, NY: Guilford Publishing.
- Homer, B.D. & Tamis-LeMonda, C. (Eds.) (2005). *The Development of Social Cognition and Communication*. Mahwah, NJ: Lawrence Erlbaum.
- Homer, B.D. & Nelson, K. (2005). Seeing Objects as Symbols and Symbols as Objects: Language and the Development of Dual Representation. In B.D. Homer & C. Tamis-LeMonda (Eds.), *The Development of Social Cognition and Communication* (pp. 29-52). Mahwah, NJ: Lawrence Erlbaum.
- Homer, B.D. (2004). Literacy and the mediated mind. In J. Lucariello, J. Hudson, R. Fivush & P. Bauer (Eds.), *Development of the Mediated Mind: Sociocultural Context and Cognitive Development: Essays in Honor of Katherine Nelson* (pp. 223-238). Mahwah, NJ: Lawrence Erlbaum.
- Homer, B.D. (2002). Literacy and metalinguistic thought: Development through knowledge construction and cultural mediation. In J. Brockmeier, M. Wang, & D.R. Olson (Eds.), *Literacy, Narrative & Culture* (pp. 266 - 287). London, UK: Routledge/Curzon.
- Kamawar, D. & Homer, B.D. (2000). Internal and external notions of meta-representation: A developmental perspective. In J.W. Astington (Ed), *Minds in the Making: Essays in Honor of David R. Olson* (pp. 197-211). Oxford, UK: Blackwell.
- Lee, K., & Homer, B.D. (1999). Children as folk psychologists: The developing understanding of the mind. In A. Slater and D. Muir (Eds.), *The Blackwell Reader in Developmental Psychology* (pp. 228-251). Oxford, UK: Blackwell.

#### **Published Conference Proceedings (Peer Reviewed)**

- Homer, B.D., Plass, J.L., Milne, C. & Jordan, T. (2009). Icons and Exploration: How Interactions Between Learner Characteristics and Instructional Design Features Affect Learning in Chemistry Simulations. In Kong, S.C., Ogata, H., Arnseth, H.C., Chan, C.K.K., Hirashima, T., Klett, F., Lee, et al. (eds.) *Proceedings of the 17th International Conference on Computers in Education* [CDROM]. Hong Kong: Asia-Pacific Society for Computers in Education.
- Plass, J.L. & Homer, B.D. (2002). Cognitive load in multimedia learning: the role of learner preferences and abilities. *Proceedings of the International Conference on Computers in Education*, 564-568. Los Alamitos, CA: IEEE Computer Society.

Posner, I., Baecker, R.M. & Homer, B. (1997). Children learning filmmaking using multimedia tools. *Proceedings of ED-MEDIA/ED-TELECOM '97: World Conference on Educational Multimedia and Hypermedia & World Conference on Educational Telecommunications*. Charlottesville, VA: Association for the Advancement of Computing in Education. Available: <http://www.dgp.toronto.edu/people/RMB/papers/p12.pdf>

### Other Publications

+Götz, M., Bulbulia, F., Fisch, S., Lemish, D., Messenger-Davies, M., Schauer, R., & Homer, B. (2006). "Is that funny anywhere else?": An international comparison of humour in children's programs. *Television*, 19(1), 35-40.

+Plass, J., Homer, B., Jordan, T., Milne, C. & deHaan, J. (2006, Spring/Summer). CREATE: A Consortium for Interdisciplinary Research on Technology and Education. *Connect: Information Technology at NYU*.

+Kamawar, D., & Homer, B.D. (1998, Spring). Children's metalinguistic understanding of words and names. *Redefining Literacy: Newsletter of the Language, Literacy and Mind Research Group*, 21-23.

(+Not peer reviewed)

### Computer Software

Jackie's Basketball: Computer Animated Second-Order Theory of Mind Task (Version 1.0) [Computer Software]. (2002). New York, NY: Computer Situated Social Cognition Research Group.

ToMmy: Computer Animated Theory of Mind Task (Version 2.1) [Computer Software]. (1999). Toronto, ON: Computer Situated Social Cognition Research Group.

### Manuscripts in Preparation

Homer, B.D., Plass, J.L., Milne, C. & Chang, Y. (in preparation). *The Interaction Between Executive Functions and Instructional Format*.

Homer, B.D. & Xue, Q. (in preparation). *Literacy acquisition and the development of metalinguistic awareness in bilingual Chinese-English children in the USA and China*.

O'Keefe, P., Milne, C., Homer, B.D., Schwartz, R. & Plass, J. (in preparation). *Predicting Learning from Visual Transitions*.

### Invited Talks

Plass, J.L. & Homer, B.D. (2011, June). *Video games and the future of learning*. Google Tech Talk, Google Inc., Mountain View, CA.

Homer, B.D. (2011, April). *Representation and symbols in development and learning*. Talk given in the Communication and Education Program colloquium series, Teachers College, Columbia University, New York, NY.

Homer, B.D. (2010, November). Current Trends & Future Directions of Technology in Education. Invited talk given in the *Learning in the Future* conference, Bahcesehir University, Istanbul, Turkey.

- Homer, B.D. (2010, March). *Symbolic understanding in development and learning*. Paper presented in the Developmental Psychology colloquium series in the Dept. of Psychology, CUNY Graduate Center, New York, NY.
- Homer, B.D. (2010, March). *Signs of thought: Symbolic understanding in development and education*. Distinguished Lecture presented at the University of Manitoba, Winnipeg, MB.
- Homer, B.D. (2010, January). *Spatial Cognition: The psychology of eye-tracking*. Paper presented as part of a public forum sponsored by the Guggenheim Museum on eyetracking and the work of Kandinsky, Adrienne Klein & Grahame Weinbren (moderators).
- Homer, B.D. (2007, October). *The Development of Symbolic Understanding Across Domains*. Paper presented in the Developmental Psychology colloquium series in the Dept. of Psychology, CUNY Graduate Center, New York, NY.
- Homer, B.D. (2007, May). *Literacy as a Tool of Cognitive Development*. Paper presented in the Third International Forum on Children's Emotion Development and Competence, Southeast University, Nanjing, China.
- Homer, B.D. (2007, May). *Language & Literacy as Mediators of Cognitive Development*. Paper presented in *Child Development in China*. Invited symposium at the Conference on Family Life, Work, and Child Development in China, East China Normal University, Shanghai, China.
- Homer, B.D. (2005, September). *The Influence of Electronic Media on Early Child Development*. Invited address to Barclays Capital Parent's Group, New York, NY.
- Halkitis, P.N. & Homer, B.D. (2005, May). *Crystal Methamphetamine: Epidemiology, HIV Risks, and the Mind-Body Connection*. HIV Rounds, St. Michael's Hospital, University of Toronto.
- Homer, B.D. (2005, February). *Language, Literacy and Symbolic Understanding in a Multilingual Context*. Presented at the colloquium series of the Department of Speech-Language Pathology and Audiology, New York University.
- Homer, B.D. (2004, April). *Language, Literacy and Symbolic Understanding in a Multilingual Context*. Presented at the colloquium series of the Educational Psychology Program, Fordham University.
- Homer, B.D. (2003, April). *Children's Understanding of the Mind: Language, Brain and Theory of Mind*. Presented at the colloquium series of the Educational Communication and Technology Program, Dept. of Administration, Leadership, and Technology, New York University.
- Homer, B.D. (2001, March). *Writing as Cultural Mediation: Literacy and Metalinguistic Awareness in Two Cultures*. Presented at the colloquium series of the Dept. of Psychology, New York University.
- Homer, B.D. (2000, September). *Language, Text and Discourse: Culture Influences on Cognitive Development*. Presented at the colloquium series of the Dept. of Applied Psychology, New York University.
- Homer, B.D. (2000, April). *Literacy and Metalinguistic Awareness in Two Cultures: Findings from Canada and China*. Paper presented in the Developmental Psychology colloquium series in the Dept. of Psychology, CUNY Graduate Center, New York, NY.



Homer, B.D. (1999, April). *Literacy and Metalinguistic Awareness: A Cross-Cultural Study*. Invited paper presented at the Conference on Literacy and Conceptions of Language, Toronto, ON.

### **Presentations at Peer Reviewed Conferences**

- Homer, B.D. (2012, March). Pictures, Sounds, Actions: Effects of Media in Learning. In Robbins, S., *Can a Video Teach You to Cook?* Symposium presented at the annual meeting of the International Association of Culinary Professionals, New York, NY.
- Homer, B.D., Hayward, E.O. & Plass, J.L. (2012, June). *Gender and play characteristics in video game play*. Paper to be presented at the annual meeting of the Jean Piaget Society, Toronto, ON, CANADA.
- Homer, B.D. & Blumberg, F. (2012, April). *Digital video game play in children's learning and cognitive development*. Symposium to be presented at the Annual Meeting of the American Educational Research Association, Vancouver, BC, Canada.
- Hayward, E.O.\* & Homer, B.D. (2011, October). *Scaling Of Advanced Theory-of-Mind Tasks*. Poster presented at the biennial meeting of the Cognitive Development Society.
- Homer, B.D. & Plass, J.L. (2011, July). *The Icon Effect: Using Iconic Visual Representation to Support Learners with Low Prior Knowledge*. Paper presented at the Harnessing Images, Text, and Sound (HITS) for Education in the context of Culture, Multimedia, Technology and Cognition (CMTC) conference, University of Prince Edward Island, Charlottetown, PEI, Canada.
- Homer, B.D., Plass, J.L., O'Keefe, P.O.\*\*, Hayward, E.\* & Stein, M.\* (2011, June). *Social context, motivation and learning in an educational video game to teach middle school math*. Poster presented at the annual meeting of the Jean Piaget Society, Berkeley, CA.
- Homer, B.D., Halkitis, P.N., Moeller, R.\* & Solomon, T.M.\* (2011, June). Assessing the effects of methamphetamine abuse and HIV on adult Theory of Mind. In E.W. Cavadel & D.A. Frye, *Beyond false belief: Theory of Mind assessment and application among diverse ages and populations*. Symposium presented at the annual meeting of the Jean Piaget Society, Berkeley, CA.
- Petroff, N.\* & Homer, B.D. (2011, April). *Linguistic Relativity: Re-examining Evidence of L1 Influences Among Late Bilinguals*. Paper presented at the Annual Conference of the International Linguistic Association.
- Plass, J.L., O'Keefe, P.A., Homer, B.D., Hayward, E.\*, Stein, M.\* & Perlin, K. (2011, April). *Motivational and Educational Outcomes Associated With Solo, Competitive, and Collaborative Game Play*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Chang, Y.K.\*, Milne, C.E., Plass, J.L., Homer, B.D., Jordan, T., et al. (2011, April). *Exploratory Analysis of Multiple Data Sources Using Data Visualization*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Milne, C.E., Plass, J.L., Homer, B.D., Schwartz, R.N., Jordan, T. et al. (2011, April). *Developing Narrative Scaffolds for Use Within Multimedia Chemistry Simulations: Challenges and Possibilities*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

- Case, J.R\*, Handee, C.D., Hayward, E.\*, Burleson, W., Verkuilen, J., Homer, B.D., et al. (2011, April). *Posture as an Indicator of Engagement in Handheld and Laptop Game-Play*. Poster presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Hayward, E\* & Homer, B.D. (2011, March). *Measurement of Theory of Mind in School-Age Children*. Poster presented at the Biennial Meeting of the Society for Research in Child Development. Montreal, PQ.
- Hayward, E.\*, Homer, B.D. & Petroff, N.\* (2010, May). *Young Preschoolers' Learning of Symbols: Linguistic Mediation of Children's Symbolic Understanding in a New Task*. Poster presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Plass, J.L., Homer, B.D., Milne, C., Jordan, T., Ng, F.\*, Schwartz, R.\*, Hayward, E.\*, Wang, Y.\*, Barrientos, J.\*, & Chang, Y.K.\* (2010, May). *An Efficacy Study on the Integration of Optimized Simulations into the High School Chemistry Curriculum*. Paper presented at the Annual Meeting for the American Educational Research Association, Denver, CO.
- Plass, J.L., Homer, B.D., Milne, C., Frye, J.\*, Huang, T.T.\*, Zeng, Z.\* (2010, May). *Defining and Measuring Engagement in Educational Games*. Poster presented at the Annual Meeting for the American Educational Research Association (AERA), Denver, CO.
- Petroff, N.\*, Hayward, E.\*, & Homer, B.D. (2009, October). *Linguistic Mediation of Young Children's Symbolic Understanding in a Modified DeLoache Task*. Poster presented at the biennial meeting of the Cognitive Development Society, San Antonio, TX.
- Homer, B.D., Plass, J. L., Milne, C., Jordan, T., Wang, Y.\*, & Barrientos, J.\* (2009, April). *Icons and Exploration: How Interactions Between Learner Characteristics and Instructional Design Features Affect Learning in Chemistry Simulations*. Paper presented at the Annual Meeting of the American Educational Researcher Association, San Diego, CA.
- Plass, J.L., Homer, B.D., Wang, M., Schwarz, R.\*, Milne, C., Jordan, T. & Verkuilen, J. (2009, April). *An Efficacy Study on the Integration of Optimized Simulations into the High School Chemistry Curriculum*. Paper presented at the 2009 Annual Meeting of the American Educational Research Association (AERA), San Diego, CA.
- Homer, B.D., Plass, J.L., Milne, C., Jordan, T. & Wang, Y.\* (2009, April). *The Effects of Iconic Representation on Learning in Computer Simulations for Middle School and High School Students*. Poster presented at the Biennial Meeting of the Society for Research in Child Development. Denver, CO.
- Homer, B.D., Tamis-LeMonda, C., & Kahana-Kalman, R. (2008, October). *Maternal Sensitivity to Content in an Infant-Mother Joint Book-Reading Task: Variations and Similarities Across Groups of Low-Income American Mothers*. Paper presented at the International Congress on Speech, Writing & Context, Queretaro, Mexico.
- Chang, Y.K., Plass, J.L., & Homer, B.D. (2008, October). *Development and Validation of a Behavioral Measure of Metacognitive Processes (BMMP)*. Featured Research presentation at the annual convention of the Association for Educational Communication and Technology (AECT), Orlando, FL.

- Plass, J.L., Homer, B.D., Wang, Y., Kim, M., Milne, C., & Jordan, T. (2008, July). *Using Narratives as Contextual Scaffolds for Science Simulations*. Paper presented at the 2008 Conference of the International Society of the Learning Sciences (ICLS 2008), Utrecht, The Netherlands.
- Milne, C., Plass, J.L., Homer, B.D., Jordan, T., Wang, Y., & Schwartz, R. (2008, July). *Beyond Argument: Science Education as Connected and Separate Knowing*. Paper presented at the Annual Meeting of the Australasian Science Education Research Association, Brisbane, Australia.
- Plass, J. L., Homer, B.D., Milne, C., Jordan, T., Kim, M. C., & Barrientos, J. (2007, October). *Representational Mode and Cognitive Load: Optimizing the Instructional Design of Science Simulations*. Featured Research paper presented at the annual convention of the Association for Educational Communication and Technology (AECT), Anaheim, CA.
- Kim, M. C., Milne, C., Barrientos, J., Jordan, T., Homer, B.D. & Plass, J. L. (2007, October). *High School Students' Use of Chemistry Simulations: Focus on Data Manipulation and Construction of Authentic Explanations*. Paper presented at the annual convention of the Association for Educational Communication and Technology (AECT), Anaheim, CA.
- Homer, B.D. & Plass, J.L. (June, 2007). *Mode of representation and individual factors in multimedia environments for learning chemistry*. In S. Golbeck, *The development of spatial literacy and schooling*. Symposium presented at the annual meeting of the Jean Piaget Society, Amsterdam, the Netherlands.
- Fisch, S.M., Homer, B., Galiardo, E., & Zabolotnaia, S. (2007, May). *Gender differences in empathy: A cross-cultural comparison*. In Goetz, M. (Chair), *The significance of cultural backgrounds in reception of TV programs*. Symposium presented at the annual meeting of the International Communication Association, San Francisco, CA.
- Plass, J, Homer, B.D., Milne, C., Jordan, T., Kalyuga, S. (2007, April). *Optimizing cognitive load in instructional simulations*. Paper presented at the annual meeting of the American Educational Researcher Association, Chicago, IL.
- Homer, B.D., Kahana-Kalman, R., Tafuro-Docherty, L., Frommer, K., Henderson, C. & Schwarzwaldner, S. (2007, April). *Interactions Between Dominican, Mexican and African American Mothers and Their Infants During Two Book-Reading Tasks*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Homer, B.D.,Fisch, S.M., Galiardo, E, Zabolotnaia, S., Lemish, D., Messenger-Davies, D, Goetz, M. & Schauer, R. (2007, April). *The Emergence of Gender Difference in Empathy Across Seven Cultures*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Boston, MA.
- Fisch, S.M., Homer, B.D., Galiardo, E, & Zabolotnaia, S. (2007, May). *Age, Gender, and Empathy: A Cross-Cultural Comparison*. In M. Götz, *The significance of cultural backgrounds in reception of TV programs*, symposium at the annual conference of the International Communication Association. San Francisco, CA.
- Milne, C., Jordan, T., Homer, B.D., Kalyuga, S., Lansiquot, R., Plass, J, & Barrientos, J. (2006, July). *Using cognitive load theory to develop animations and simulations: The road partly traveled*. Paper presented at the 19th Biennial Conference on Chemical Education. West Lafayette, IN.

- Plass, J., Homer, B.D., Jordan, T., Milne, C. & Kuylaga, S. (2006, June). *Molecules and Minds: Optimizing Cognitive Load in Simulations for Science Education*. Poster presented at the Annual Institute for Educational Sciences Research Conference. Washington, DC.
- Fisch, S.M., Homer, B.D., Galiardo, E, Zabolotnaia, S., Lemish, D., Messenger-Davies, D, Goetz, M. & Schauer, R. (2006, May). *Age, Gender, and Empathy: A Cross-Cultural Comparison*. Poster presented at the Annual Meeting of the Association for Psychological Science. New York, NY.
- Plass, J., Lee, H. & Homer, B.D. (2006, April). *Optimizing Cognitive Load in Learning from Instructional Simulations*. Paper presented at the annual meeting of the American Educational Researcher Association, San Francisco, CA.
- Homer, B.D. (2005, October). *Language and the Development of Dual Representation*. Paper presented in B.D. Homer & S. Jacques, *Language and Cognitive Development: The Effects of Labeling in Infancy and Early Childhood*, symposium at the biennial meeting of the Cognitive Development Society, San Diego, CA.
- Homer, B.D. & Jacques, S. (2005, October). *Language and Cognitive Development: The Effects of Labeling in Infancy and Early Childhood*. Symposium held at the biennial meeting of the Cognitive Development Society, San Diego, CA.
- Homer, B.D., Plass, J.L., & Blake, L. (2005, April). *The Effects of Video on Cognitive Load and Social Presence in Computer-Based Multimedia Learning*. Paper presented at the Annual Meeting of the American Educational Researcher Association, Montreal, QC.
- Homer, B.D. & Xue, Q. (2005, April). *Metalinguistic Awareness and Reading Ability in Chinese-English Bilingual Children: A Cross-Cultural Study*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Xue, Q. & Homer, B.D. (2005, April). *A Longitudinal Study of the Relation Between Literacy and Metalinguistic Awareness in Chinese-English Bilingual Children*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Xue, Q. & Homer, B.D. (2004, August). *Literacy and Meta-linguistic Awareness in Chinese-English Bilingual Children*. Poster presented at the International Congress of Psychology, Beijing, China.
- Goldberg, S.J. & Homer, B.D. (2004, June). *The Relationship Between English (L1) and Hebrew (L2) Reading Comprehension and Teacher Reported Behavior Problems*. Paper presented to annual meeting of the Society for the Scientific Study of Reading, Amsterdam, The Netherlands.
- Homer, B.D. (2004, March). *Best Practices for Using Educational Media in Teaching and Learning: An Empirical Perspective*. Symposium held at the Metropolitan College of New York's Education and Media Conference, New York, NY. [Discussant]
- Homer, B.D. & Xue, Q. (2003, October). *Factors predicting reading ability in Chinese-English bilingual children*. Poster presented at the biennial meeting of the Cognitive Development Society, Park City, Utah.
- Ramsay, J.T., Homer, B.D., & McFadden, G. (2003, August). *Re-examining Psychosocial Outcome Following Pediatric Brain Injury: The Importance of Theory of Mind*. Poster presented at the annual meeting of the American Psychological Association, Toronto, ON.

- Homer, B.D. & Nelson, K. (2003, April). *An Experimental Study of Linguistic Mediation in Young Children's Symbolic Understanding*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Tampa, FL.
- Xue, Q., Homer, B.D., & Xu, Fen (2003, April). *Literacy and Metalinguistic Awareness in Chinese-English Bilingual Children*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Tampa, FL.
- Homer, B.D., Ramsay, J.T., & McFadden, G.T. (2001, October). *Theory of Mind Performance and Adaptive Functioning in Children with Brain Injury*. Poster presented at the annual meeting of the Cognitive Development Society, Virginia Beach, VA.
- Homer, B.D. (2001, August). *Literacy and Metalinguistic Awareness in Mandarin and English-Speaking Children*. Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.
- Homer, B.D. (2001, April). *The role of literacy in Chinese and Canadian Children's Acquisition of Metalinguistic Awareness*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN.
- Homer, B.D. & Brockmeier, J. (2000, June). *The Pragmatics of Nominal Realism: Discursive Context in Children's Conception of Names*. In B.D. Homer & J. Brockmeier, *Ways of Word Making*. Symposium at the annual meeting of the Jean Piaget Society, Montreal, PQ.
- Homer, B.D. & Brockmeier, J. (2000, June). *Ways of Word Making*. Symposium at the annual meeting of the Jean Piaget Society, Montreal, PQ.
- Ramsay, J.T. & Homer, B.D. (2000, May). *Mexican and Canadian children's Understanding of False-Belief: Evidence for Cultural Influence in Theory of Mind Development*. Poster presented at Development 2000, Waterloo, ON.
- Ramsay, J.T., McFadden, G.T. & Homer, B.D. (1999, September). *Theory of Mind Deficits Following Pediatric Acquired Brain Injury*. Paper presented at the Second Inter-Urban Brain Injury Conference, Toronto, ON.
- Ramsay, J.T., & Homer, B.D. (1999, June). *Specific Alterations in Consciousness Following Traumatic Brain Injury: Reexamining Personality Change*. Poster presented at the Annual Meeting of the Association for the Scientific Study of Consciousness, London, ON.
- Homer, B.D. (1999, April). *The Role of Literacy in Metalinguistic Awareness*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Albuquerque, NM.
- Ramsay, J.T., Homer, B.D., & McFadden, G.T. (1999, February). *An Examination of Social Cognition Following Pediatric Acquired Brain Injury*. Paper presented at the World Conference on Pediatric Neuropsychology, West Palm Beach, FL.
- Zijdemans, A., Homer, B.D., & Keating, D. (1998, December). *A Prototype Web-Based Health Promotion Learning Environment*. Paper presented at the Annual International Conference on the Learning Sciences, Atlanta, GA.
- Homer, B.D. (1998, November). *Theory and Objective of the Learning Society Network*. In D. Keating (Chair), *Social and human Development Issues: Linking Social and Technological Innovation*. Symposium conducted at the meeting of the TeleLearning Network of Centres of Excellence, Vancouver, BC.

- Ramsay, J.T., Homer, B.D., & McFadden (1998, November). *Applying the Theory of Mind Paradigm to Pediatric Psychosocial Rehabilitation*. Poster presented at the American Congress of Rehabilitation Medicine, Seattle, WA.
- Homer, B. & Ramsay, J.T. (1998, August). *ToMmy: A Cross-Cultural Comparison of a Computerized Theory of Mind Task*. Poster presented at the annual convention of the American Psychological Association, San Francisco, CA.
- Homer, B.D., Brockmeier, J., Kamawar, D. & Olson, D.R. (1998, June). *Children's Metalinguistic Understanding of Words and Names*. Paper presented at the annual meeting of Jean Piaget Society, Chicago, IL.
- Homer, B. (1998, April). *What Writing Represents for Preliterate Children*. Poster presented at the biennial University of Waterloo Conference on Child Development, Waterloo, ON.
- Zijdemans, A., Homer, B.D., Homer T., & Keating, D. (1997, November). *Designing a Learning Society Network*. Poster presented at the annual conference of the TeleLearning Network of Centres of Excellence, Toronto. ON.
- Homer, B.D. (1997, August). *The Relation of Children's Understanding of Second-Order Beliefs and Truth Value Judgment*. Poster presented at the annual convention of the American Psychological Association, Chicago, IL.
- Baecker, R., Posner, I., Jevans, I., Homer, B.D., Cohen, A., & Poplar, S. (1997, March). *A Study of Children Learning to Create Motion Pictures*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Posner, I., Baecker, R., Jevans, I. & Homer, B.D. (1997, March). *Using Multimedia Tools to Teach Film-Making to Children*. Paper presented at the annual meeting of the American Educational Association, Chicago, IL.
- Homer, B.D. (1996, May). *Children's understanding of Linguistic Concepts in Speech and Writing*. Paper presented at the biennial University of Waterloo Conference on Child Development, Waterloo, ON.
- Astington, J.W. & Homer, B.D. (1995, April). *Children's Understanding of Second-Order Beliefs and Its Relation to Their Ability to Distinguish Causes and Reasons*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Homer, B.D. & Astington, J.W. (1995, March). *Children's Understanding of Second-Order Beliefs in the Self and Other*. Poster presented at the biennial meeting of the Society for Research in Child Development, Indianapolis, IN.
- Homer, B.D. (1992, April). *The Relation Between Self-Recognition and Empathy in Infants*. Paper presented at the annual Atlantic Provinces Inter-Scholastic Conference, St. John, NB.

### Teaching Experience

2008-present *The Graduate Center, CUNY (faculty)*

Graduate Courses:

Advanced Seminar in Communication in Cognition and Learning  
 Communication in Cognition and Learning  
 Cognitive Development and Learning Processes in Education  
 Research Methods in Educational Psychology I  
 Language & Communicative Development

2000-2007 *New York University (faculty)*

Undergraduate Courses Taught:

Educational Psychology

Research Methods in the Behavioral Sciences

Graduate Courses:

Cognitive Development

Experimental Psychology

Human Growth & Development

Learning Theories

Research in Reading and Language

Seminar: Issues in Applied Psychology

Seminar: Research Problems in Applied Psychology

Seminar in Communication and Cognition

2000 *Hunter College (Adjunct Instructor)*

Child Psychology

1998-2000 *University of Toronto (Instructor)*

Learning and Human Behaviour

Psychological Foundations of Learning & Development

### **Supervision of Graduate Students:**

#### *Postdoctoral Fellows:*

Paul O'Keefe (2009-current)

Darsh Ramdass (2009-current)

Florrie Ng (2008-2009) – Now on faculty at Chinese University of Hong Kong

Minchi Kim (2006 - 2007) – now on faculty at Perdue University

#### *Dissertations Chaired:*

Natalya Petroff (current)

Jeff Guttman (current)

Qing Xue – NYU (current)

Elizabeth Hayward - NYU (2011)

Scott Goldberg – NYU (2003)

#### *Dissertations as Committee Member:*

Ariane Schneider (current)

Mildred Mihlon (2010)

Andrea Salis (2010)

Marisa Cohen (2011)

Christophe Winkler (2010)

Yoo Kyung Chang – NYU (2010)

Darshanand Ramdass (2009)

Regina Monahan – NYU (2008)

Elizabeth Woodburn – U. Penn (2008)

Camila Fernandez – NYU (2007)

Jeanne M. Angus – NYU (2007)

Simon Slater – NYU (2005)

Robert Whelan – NYU (2005)

#### *M.A. & Undergraduate Honors Theses Supervised:*

February, 2012

Hisae Yoshikawa, M.A. (2007)  
Svetlana Jijina, M.A. (2006)  
Pamela Young, B.A. (2006)  
Elizabeth Galiardo, M.A. (2005)  
Linda Blake, B.A. (2004)

Alex Endress, M.A. (2004)  
Grace Ho, M.A. (2004)  
Hiroko Matsumoto, M.A. (2003)  
Neal Chandran M.A. (2003)

### **University and Departmental Service**

2007-present Coordinator for departmental Doctoral Student Research Awards  
2007-present Faculty Council Representative  
2005-2007 Academic Technology Committee  
2005-2007 University Child Care Taskforce Committee  
2003-2007 Dept. of Applied Psychology Website Coordinator  
2003-2006 Dept. of Applied Psychology Comprehensive Exam Coordinator  
2003-2006 Curriculum Committee Chair, Department of Applied Psychology  
2000-2006 Curriculum Committee, Department of Applied Psychology  
2005-2006 Dept. of Applied Psychology Faculty Search Committee  
2004 Steinhardt School of Education Technology Committee  
2004-2005 Dept. of Applied Psychology Faculty Search Committee  
2004 Steinhardt School of Education Senate Counselor  
2004 Steinhardt School of Education Student Affairs Committee  
2003-2004 Program Representative, *TEAC Accreditation & Phoenix Database Committee*  
2003 Educational Communication and Technology Program Faculty Search Committee  
2001 NYU Pre-service Teacher Human Development Course Development Committee  
2000-2003 Applied Psychology Baccalaureate Studies Advisory Committee  
2000-2001 Ad Hoc Visiting Committee Report Task Force, Dept. of Applied Psychology

### **Professional & Community Service**

Ad Hoc reviewer for *Psychological Science*; *British Journal of Educational Psychology*; *Child Development*; *Child Development Perspectives*; *Computers and Human Behavior*  
Reviewer for PSC-CUNY Research Award Program (2010)  
External Reviewer for the *Social Sciences and Humanities Research Council* of Canada (2010).  
Ad Hoc Reviewer for *Hong Kong Institute of Education Research Grants* (2007-present)  
Reviewer for *Annual Meeting of the American Educational Research Association* (Division C: Learning & Instruction)  
Reviewer for the *Biennial Meeting of the Society for Research in Child Development*. (Panel: *Childhood: Physical and Cognitive Processes*).  
Consulting service provided for: *Cerego/Smart.fm*; WTTW television; *The Academy of Saint Joseph School*; *WildBrain*; *Hispanic Information and Telecommunications Network*  
Member of the Board of Directors: University Plaza Nursery School (2004-2010 - President of the Board, 2006-2008); *Child Development and Learning Center* at CUNY Graduate Center (2008-present).  
Curriculum partner for *The Millennium Dialogue for Early Child Development*  
[<http://www.webforum2001.net/>]  
External Reviewer for PSC-CUNY Research Award Program (Spring, 2001)



Associate Editor, *Redefining Literacy - Online* (1998-2001)

**Professional Memberships**

*American Educational Research Association*

*Association for Psychological Science*

*Behavioral and Brain Sciences Associate*

*Cognitive Development Society*

*Society for Research in Child Development*