H-STAR Institute

Faculty Publications 2008-09

Russ Altman

Garten Y, Altman RB. Pharmspresso: a text mining tool for extraction of pharmacogenomic concepts and relationships from full text. *BMC Bioinformatics*. 2009 Feb 5;10 Suppl 2:S6.

Jeremy Bailenson

Articles Accepted for Publication and In Press

Fox, J.A. & Bailenson, J.N. (2009, in press). Virtual Experiences, Physical Behaviors: The Effect of Presence on Imitation of an Eating Avatar. PRESENCE: Teleoperators and Virtual Environments.

Fox., J.A., Arena, D. & Bailenson, J.N. (2009, accepted for publication). Virtual Reality: A Social Scientist's Survival Guide. Journal of Media Psychology.

Harris, H., Bailenson, J.N., Yee, N. & Nielsen, (2009, in press). The evolution of social behavior in virtual worlds over time. PRESENCE: Teleoperators and Virtual Environments.

Mccall, C.A., Bunyan, D., Bailenson, J.N., & Blascovich, J. (2009, in press). Non-zero sum proximity and social influence in immersive virtual environments. PRESENCE: Teleoperators and Virtual Environments.

Segovia, K. & Bailenson, J.N. (2009, accepted for publication). Virtually True: Children's Acquisitions of False Memories in Virtual Reality. Media Psychology.

Van Vugt, H., Bailenson, J.N., Konijn, E., & Hoorn, J. (2009, accepted for publication). Morphed lookalikes: Facial similarity shapes user response to embodied agents. ACM Transactions on Computer Human Interaction.

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Fox, J.A., & Bailenson, J.N. (2009). Virtual self-modeling: The effects of vicarious reinforcement and identification on exercise behaviors. Media Psychology, 12, 1-25.

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Groom, V., Bailenson, J. N., & Nass, C. (2009). The influence of racial embodiment on racial bias in immersive virtual environments. Social Influence, 4(1), 1 - 18.

Yee, N. & Bailenson, J.N. (2009). The difference between being and seeing: The relative contribution of self perception and priming to behavioral changes via digital self-representation. Media Psychology, 12, 195-209.

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Brigid Barron

Peer reviewed journal articles

- Barron, B., Martin, C. K., Takeuchi, L., & Fithian, R. (2009). Parents as learning partners in the development of technological fluency. The International Journal of Learning and Media, 1, 55-77.
- Barron, B., Walter, S., Martin, C. K., & Schatz, C. (2009). Predictors of creative computing participation and profiles of experience in two Silicon Valley middle schools. Computers and Education. doi:10.1016/j.compedu.2009.07.017
- Barron, B., Walter, S., Martin, C. K., & Schatz, C. (paper version forthcoming in 2010). Predictors of creative computing participation and profiles of experience in two Silicon Valley middle schools. Computers and Education (2010). Predictors of creative computing participation and profiles of experience in two Silicon Valley middle schools. Computers & Education, 54 178–189.

Chapters/articles/reports

- Barron, B. & Roschelle, J. (in press). Shared Cognition. To appear in E. Anderman, (Ed.), Psychology of Classroom Learning: An Encyclopedia, Detroit: Macmillan Reference USA.
- Barron, B. & Darling-Hammond, L. (2009). Teaching for Meaningful Learning. To appear in Darling-Hammond, L., Barron, B., Pearson, D., Schoenfeld, A.H., Stage, E.K., Zimmerman, T.D., Cervetti, G. N., Tilson, J. L. (eds). Powerful Learning: What We Know About Teaching for Understanding. Jossey-Bass.
- Barron, B. & Darling-Hammond (in press). Learning environments for the 21st century: Prospects and challenges for inquiry based approaches. Commissioned research review for the OECD.
- Barron, B. & Darling-Hammond, L. (2008). Powerful Learning: Studies Show Deep Understanding Derives from Collaborative Methods. Edutopia. George Lucas Foundation.

Book

Darling-Hammond, L., Barron, B., Pearson, D., Schoenfeld, A.H., Stage, E.K., Zimmerman, T.D., Cervetti, G. N., Tilson, J. L. (2008). Powerful Learning: What We Know About Teaching for Understanding. Jossey-Bass. ISBN: 978-0-470-27667-9 224 pages.

Peer reviewed conferences and proceedings

Barron, B. (2009, June). Long-Tail Learning symposium. In C. O'Malley, D. Suthers, P. Reimann, & A. Dimitracopoulou (Eds.), Computer Supported Collaborative Learning Practices: CSCL 2009 Conference Proceedings (pp. 22-24). New Brunswick, NJ: International Society of the Learning Sciences (ISLS). Presented at 8th International Conference on Computer Supported Collaborative Learning (CSCL). University of the Aegean, Rhodes, Greece.

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Martin, C. K. & Barron, B. (2009, June). Learning to collaborate through multimedia composing. Part of the Repertoires of Collaborative Practice symposium. In C. O'Malley, D. Suthers, P. Reimann, & A. Dimitracopoulou (Eds.), Computer Supported Collaborative Learning Practices: CSCL 2009 Conference Proceedings (pp. 25-27). New Brunswick, NJ: International Society of the Learning Sciences (ISLS). 8th International Conference on Computer Supported Collaborative Learning (CSCL). University of the Aegean, Rhodes, Greece.

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Martin, C. K. & Barron, B. (2009, August). Developing tech fluency outside of home and school: An exploration of adult roles for youth at a computer clubhouse. 13th Biennal Conference for Research on Learning and Instruction: EARLI 2009. Amsterdam, The Netherlands.

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Lera Boroditsky

Winawer, J, Huk, A, Boroditsky, L. (2009). The neuronal basis of mental imagery. Cognition.

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Flusberg, S.J., Jenkins, G.W., & Boroditsky, L. (2009). Motor Affordances in Mental Rotation: When minds reflect the world and when they go beyond. Proceedings of the 31st Annual Meeting of the Cognitive Science Society.

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Gentner, D., & Boroditsky, L. (2009). Early acquisition of nouns and verbs: Evidence from Navajo. In V. Gathercole (Ed.) Routes to Language: Studies in honor of Melissa Bowerman, 5-36. Taylor & Francis, New York, NY.

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Laura L. Carstensen

Carstensen, L.L. (2009) A long bright future: An action plan for a lifetime of happiness, health, and financial security. New York: Broadway Books.

Samanez-Larkin, G.R., Robertson, E.R., Mikels, J.A., Carstensen, L.L., Gotlib, I.H. (2009). Selective attention to emotion in the aging brain. Psychology and Aging, 24, 519–529.

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Ram, N., Morelli, S., Lindberg, C., Carstensen, L.L. (2008). From static to dynamic:

The on-going dialectic about human development. In K.W. Schaie and R. Abeles (Eds.) Social Structures and Aging Individuals: Continuing Challenges, New York: Springer.

Lindberg, C., Carstensen, E.L. & Carstensen, L.L. (2008). Lifelong learning and technology. Prepared for the National Research Council's Report on Learning Science in Informal Environments: A Review of the Research Past, Present, and Future. Washington, DC: National Academies Press.

Nielsen, L., Carstensen, L.L. & Knutson, B. (2008). Affect dynamics, affective forecasting and aging. Emotion, 8, 318-330.

Lockenhoff, C.E. & Carstensen, L.L. (2008). Decision Strategies in Healthcare Choices for Self and Others: Older Adults Make Adjustments for the Age of the Decision Target, Younger Adults Do Not. Journals of Gerontology: Psychological Sciences, 63, P106-P109.

Ersner-Hershfield, H., Mikels, J.A., Sullivan, S.J., Carstensen, L.L. (2008). Poignancy: Mixed emotional experience in the face of meaningful endings. Journal of Personality and Social Psychology, 94, 158-167.

Chris Chafe

Honors

Last academic year I was appointed as iCORE Visiting Professor in Interactive Systems for Media Collaboration at the Banff Centre, Alberta, Canada

Helen Chen

Lichtenstein, G., Loshbaugh, H.G., Claar, B., Chen, H.L., Jackson, K., Sheppard, S.D. (2009, July). An engineering major does not (necessarily) an engineer make: Career decision making among undergraduate engineering majors. *Journal of Engineering Education*, 98(3), 227-234.

Chen, H.L. & Ittelson, J.C. (2009). EPAC: Building a community of practice around ePortfolios (pp. 109-120. In J. Zubizarreta (Ed.), *The Learning Portfolio: Reflective Practice for Improving Student Learning (Second Ed.)*. San Francisco, CA: John Wiley & Sons.

Chen, H.L. (2009). Using ePortfolios to support lifelong and lifewide learning. In D. Cambridge, B. Cambridge, K. Yancey (Eds.), *Electronic Portfolios 2.0: Emergent Findings and Shared Questions*. Sterling, VA: Stylus.

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Chen, H.L. (July 28, 2009). Assessment in an online environment. Panel presentation at the Campus Technology annual conference, Boston, Massachusetts.

Smith, R., Chen, H.L., & Johnson, M. (2009). *Supporting technically-facilitated intercultural classes*. Breakout session at the Campus Technology annual conference, Boston, Massachusetts.

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Chen, H.L., Donaldson, K., Eris, O., Chachra, D., Lichtenstein, G., Sheppard, S., & Toye, G. (2008). From PIE to APPLES: The evolution of a survey instrument to explore engineering student pathways. In *Proceedings of the American Society for Engineering Education Annual Conference and Exposition*, Pittsburgh, Pennsylvania.

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Jackson, K., Bailey, T., Sheppard, S., & Chen, H.L. (2008). Graduate school or not: Engineering students consider continuing their education in co-terminal programs. In In *Proceedings of the American Society for Engineering Education Annual Conference and Exposition*, Pittsburgh, Pennsylvania.

Keith Devlin

Books

The Computer as Crucible: An Introduction to Experimental Mathematics, with Jonathan Borwein, AK Peters (2008), 200pp.

The Unfinished Game: Pascal, Fermat, and the Seventeenth Century Letter that Made the World Modern, Basic Books (2008), 208pp.

Articles

A mathematician reflects on the useful and reliable illusion of reality in mathematics, Proceedings of the workshop Towards a New Epistemology of Mathematics, held at the GAP.6 Conference in Berlin, September 14-16, 2006. Erkenntnis, Vol. 68, No. 3, May 2008, pp.359-379.

What will count as mathematics in 2100?, Bonnie Gold and Roger Simons (eds), Proof and Other Dilemmas: Mathematics and Philosophy, MAA Spectrum Series, 2008, pp.291-311.

Answers to five questions, Luciano Floridi (ed), Philosophy of Computing and Infor- mation: 5 Questions, Automatic Press, 2008, pp.61-69.

Modeling real reasoning, Giovanni Sommaruga (ed), Formal Theories of Information, Springer Verlag "Lecture Notes in Computer Science", 2009, pp.234-252.

Information in the Social Sciences (with Duska Rosenberg), in Johan van Benthem et al (eds), Handbook of the Philosophy of Information, North Holland, 2008, pp.685-710.

An Essay on the Work of Omar Khayyam, Journal of Islamic Studies, Vol 20, No. 3, 2009, pp.428-430.

Renata Fruchter

Fruchter, R. and Bosch-Sijtsema, P. (2009) "The Wall: participatory design workspace in support of creativity, collaboration, and socialization," proceedings of SID2009 Social Intelligence Design, Kyoto, Japan.

Nurmi, N. P. M. Bosch-Sijtsema, A. Sivunen, and R. Fruchter (2009) "Who shouts louder. Exerting power across distance and culture". Proceedings of IWIC, International workshop of intercultural collaboration, Stanford. ACM Digital Library, ACM 978-1-60558-198-9/09/02.

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Shelley Goldman

Books

diGiano, C., Goldman, S. & Chorost, M. (Eds). Educating Learning Technology Designers, C. diGiano, S. Goldman & M. Chorost, (Eds). London: Routledge.

Refereed journal articles

Martin, L., Goldman, S., & Jimenez, O. (2009). *The Tanda: A practice at the intersection of mathematics, culture, and financial goals.* Mind, Culture and Activity. 16: 4, 338–352.

Chapters in books

Goldman, S., di Giano, C. & Chorost, M. (2009). *Preparing the Next Generation of Learning technology Designers*. In di Giano, C., Goldman, S., & Chorost, M. (Eds.), Educating Learning Technology Designers: Guiding and Inspiring Creators of Innovative Educational Tools. London & New York: Routledge. 1-18.

Mercier, E., Goldman, S. & Booker, A. Focusing on Process: evidence and Ideas to Promote Learning though the Collaborative Design Process. In di Giano, C., Goldman, S., & Chorost, M. (Eds.), Educating Learning Technology Designers: Guiding and Inspiring Creators of Innovative Educational Tools. London & New York: Routledge. 36-61.

Goldman, S., Booker, A. & Mercier, E. *Partnering with K-12 Educators in Collaborative Design of Learning Technology*. In di Giano, C., Goldman, S., & Chorost, M. (Eds.), Educating Learning Technology Designers: Guiding and Inspiring Creators of Innovative Educational Tools. London & New York: Routledge. 62-79.

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Kenji Hakuta

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Jeffrey Heer

Protovis: A Graphical Toolkit for Visualization, Michael Bostock, Jeffrey Heer. IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis'09), 15(6), pp. 1121-1128, Oct 2009.

The Design of <u>Sense.us</u>, Jeffrey Heer. In T. Segaran, J. Hammerbacher (eds), Beautiful Data, O'Reilly Media, 2009.

Sizing the Horizon: The Effects of Chart Size and Layering on the Graphical Perception of Time Series Visualizations, Jeffrey Heer, Nicholas Kong, Maneesh Agrawala. Proc. ACM Human Factors in Computing Systems (CHI), pp. 1303-1312, Apr 2009.

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Point, Talk, Publish: Visualization and the Web, Jeffrey Heer, Fernanda B. Viégas, Martin Wattenberg, Maneesh Agrawala. In E. Zudilova-Seinstra, T. Adriaansen, R. van Liere (eds), Trends in Interactive Visualisation, Springer, 2008.

Creation and Collaboration: Engaging New Audiences for Information Visualization, Jeffrey Heer, Frank van Ham, Sheelagh Carpendale, Chris Weaver, Petra Isenberg. In Fekete, A. Kerren, C. North, J. T. Stasko (eds), Information Visualization: Human-Centered Issues in Visual Representation, Interaction, and Evaluation, Springer, 2008.

Generalized Selection via Interactive Query Relaxation, Jeffrey Heer, Maneesh Agrawala, Wesley Willett. Proc. ACM Human Factors in Computing Systems (CHI), pp. 959-968, Apr 2008.

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Charles House

Book

House, Charles H. & Price, Raymond. *The H-P Phenomenon*, Stanford University Press: Stanford, CA, 2009.

Article

House, Charles H. "Why Invention and Innovation Diverge", *ACM Communications*, 52:8, August 2009, p. 8,

Cammy Huang

Spante M, Ericsson T, Sunnerstam M, Huang DeVoss C, Axelsson M (2009). Unlock the rigidity and design for flexibility. US-China Education Review (accepted).

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Annerstsedt C, Garza D, Huang DeVoss C, Lindh J, Rydmark M (2009). Research-Able through Problem-Based Learning Journal of the Scholarship of Teaching and Learning (submitted).

Hodin J, Miller P, Huang-DeVoss C, Epel D (2009) Inquiry-based web curricula in development, microscopy, physiology and environmental science. Society for Integrative Biology Conference (SICB) (poster).

Leonid Kazovsky

Refereed Journal Articles

L.G. Kazovsky, S.-W. Wong, V. Gudla, P. T. Afshar, S.-H. Yen, S. Yamashita, and Y. Yan, "Challenges in Next Generation Optical Access Networks: Addressing Reach Extension and Security Weaknesses," IET Optoelectronics Journal, special issue on Next Generation Optical Access (*Invited paper*).

Refereed Symposia/Conference Publications and/or Proceedings:

- Y. Yan, S.-W. Wong, L. Dittmann, and L. G. Kazovsky, "Integrated Control Platform with Load Balancing Algorithm in the Hybrid Optical Wireless Networks" International Conference on New Technologies, Mobility, and Security (NTMS 2009), Cairo, Egypt, Dec. 2009 (*Accepted for publication*).
- S.-W. Wong, D. Campelo, H. Lee, N. Cheng, S.-H. Yen, L.G. Kazovsky, and D. Cox, "Grid Reconfigurable Optical-Wireless Architecture for Large Scale Municipal Mesh Access Network," IEEE Global Telecommunications Conference (GLOBECOM 2009), Honolulu, HI, USA, Nov. 2009 (Accepted for publication).
- S.-W. Wong, Y. Yan, L.G. Kazovsky, and L. Dittman, "MPCP Assisted Power Control and Performance of Cell Breathing in Integrated EPON-WiMAX Network," IEEE Global

Telecommunications Conference (GLOBECOM 2009), Honolulu, HI, USA, Nov. 2009 (Accepted for publication).

- S.-W. Wong, L. Valcarenghi, S.-H. Yen, D. Campelo, S. Yamashita, L. Kazovsky, "Sleep Mode for Energy Saving PONs: Advantages and Drawbacks," IEEE 2nd International Workshop on Green Communications (GREENCOMM), Honolulu, HI, USA, Nov. 2009 (Accepted for publication).
- N. Cheng, S.-H. Yen, J. Cho, Z. Xu, T. Yang, Y. Tang, and L. G. Kazovsky, "Long Reach Passive Optical Networks with Adaptive Power Equalization Using Semiconductor Optical Amplifiers," Asia Communications and Photonics Conference and Exhibition (ACP 2009), Shanghai, China, Nov. 2009 (Accepted for publication).
- W.-T. Shaw, S.-W. Wong, S.-H. Yen, and L. G. Kazovsky, "An Ultra-Scalable Broadband Architecture for Municipal Hybrid Wireless Access Using Optical Grid Network," IEEE Optical Fiber Communication Conference (OFC 2009), OThP2, San Diego, CA, March 2009.

Books and Contributions to Books

- S.-W. Wong, D. Campelo, and L.G. Kazovsky, "Next-Generation Integrated Metropolitan-Access Network: Technology Integration and Wireless Convergence," book chapter in *Wireless Edge and Optical Cord Next Generation Networks*, John Wiley & Son Press (*Accepted for publication*).
- L. G. Kazovsky, N. Cheng, W.-T. Shaw, D. Gutierrez, and S.-W. Wong, Broadband Optical Access Networks: Emerging Technologies and Optical- Wireless Convergence, John Wiley & Sons Press (*Contract signed*).

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- L. G. Kazovsky and S.-W. Wong, "Metropolitan and Access Ring Integrated Network (MARIN)," NSF Final Report no. 0520291, September 2009 (*Approved by NSF*).
- L. G. Kazovsky and S.-W. Wong, "Grid Reconfigurable Optical and Wireless Network (GROW-Net)," NSF Annual Report no. 0627085, September 2009 (*Approved by NSF*).

Scott Klemmer

Opportunistic Programming: Writing Code to Prototype, Ideate, and Discover, Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, and Scott R. Klemmer. IEEE Software

Toolkit Support for Integrating Physical and Digital Interactions, Scott R. Klemmer, and James A. Landay. HCI Journal

Two Studies of Opportunistic Programming: Interleaving Web Foraging, Learning, and Writing Code, Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, and Scott R. Klemmer. CHI: ACM Conference on Human Factors in Computing Systems

Coordinating Tasks on the Commons: Designing for Personal Goals, Expertise, and Serendipity, Michel Krieger, Emily Margarete Stark, Scott R Klemmer. CHI: ACM Conference on Human Factors in Computing Systems

Remixing The Web: Enhancing Tailoring Using Programmable Proxies, Joel Brandt, Leslie Wu, Scott R. Klemmer. Workshop on End User Programming for the Web, CHI: ACM Conference on Human Factors in Computing Systems

Finding Inspiration for the Future in Our Past, Scott R. Klemmer. Ambidextrous Magazine, Issue 10

Integrating Physical and Digital Interactions on Walls, Scott R. Klemmer, Katherine M. Everitt, James A. Landay. HCI Journal

Range: Exploring Implicit Interaction through Electronic Whiteboard Design, Wendy Ju, Brian Lee, and Scott R Klemmer. Computer Supported Cooperative Work

Iterative Design and Evaluation of an Event Architecture for Pen-and-Paper Interfaces, Ron B. Yeh, Andreas Paepcke, and Scott Klemmer. UIST 2008: ACM Symposium on User Interface Software and Technology

Design As Exploration: Creating Interface Alternatives through Parallel Authoring and Runtime Tuning, Björn Hartmann, Loren Yu, Abel Allison, Yeonsoo Yang, and Scott R. Klemmer. UIST 2008: ACM Symposium on User Interface Software and Technology

Hacking, Mashing, Gluing: Understanding Opportunistic Design, Björn Hartmann, Scott Doorley and Scott R. Klemmer. IEEE Pervasive Computing July-September 2008

Opportunistic Programming: How Rapid Ideation and Prototyping Occur in Practice, Joel Brandt, Philip Guo, Joel Lewenstein, Scott R. Klemmer. Workshop on End-User Software Engineering IV. ICSE 2008: 30th International Conference on Software Engineering

Exiting the Cleanroom: On Ecological Validity and Ubiquitous Computing, Scott Carter, Jennifer Mankoff, Scott R. Klemmer, and Tara Matthews. Human-Computer Interaction

Programming by a Sample: Rapidly Creating Web Applications with d.mix, Björn Hartmann, Leslie Wu, Kevin Collins, Scott R. Klemmer. UIST?2007: ACM Symposium on User Interface Software and Technology

Patterns of Collaboration in Design Courses: Team dynamics affect technology appropriation, artifact creation, and course performance, Heidy Maldonado, Brian Lee, Scott R Klemmer, Roy D Pea. CSCL-2007: Conference on Computer Supported Collaborative Learning

Authoring Sensor-based Interactions by Demonstration with Direct Manipulation and Pattern Recognition, Björn Hartmann, Leith Abdulla, Manas Mittal, Scott R Klemmer. CHI 2007: ACM Conference on Human Factors in Computing Systems

Larry Leifer

Books and Contributions to Books

Mabogunje, A., Eris, O., Sonalkar, N., Jung, M., Leifer, L.J., (2008) Spider Webbing: A Paradigm for Engineering Design Conversations during Concept Generation." Advances in Design Thinking Research (edited proceedings of Symposium 7), J. McDonnell, P. Lloyd, N. Cross (eds).

Archival Journal Articles

Vanasupa, L., Burton, R., Stolk, J., Zimmerman, J., Leifer, L., and Anastas, P., (2009): "The systemic correlation between mental models and sustainable design: Implications for Engineering

Educators," International Journal of Engineering Education.

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