

Publications of H-STAR affiliated faculty 2009-10

Jeremy Bailenson

Janssen, J.H., Bailenson J.N., IJsselsteijn, W.A., & Westerink, J.H.D.M. (2010, in press). Intimate heartbeats: Opportunities for affective communication technology. *IEEE Affective Computing*

Ahn, S. J. & Bailenson, J. N. (2010, in press). Self-endorsing versus other-endorsing in virtual environments: The effect on brand attitude and purchase intention. *Journal of Advertising*.

Fox, J. & Bailenson, J.N. (2010). The use of doppelgängers to promote health behavior change. *CyberTherapy & Rehabilitation*, 3 (2), 16-17.

Yee, N., Harris, H., Jabon, M., Bailenson, J.N. (2010, in press). The Expression of Personality in Virtual Worlds. *Social Psychology and Personality Science*.

Jabon, M.E., Bailenson J.N., Pontikakis, E.D., Takayama, L., & Nass, C. (2010, in press). Facial Expression Analysis for Predicting Unsafe Driving Behavior. *IEEE Pervasive Computing*

Jabon, M.E., Ahn, S.J., & Bailenson, J.N. (2010, in press). Predicting performance on a repetitive task through automatic analysis of facial feature movements. *IEEE Journal of Intelligent Systems*.

Leonetti, C., & Bailenson, J.N. (2010). High-Tech view: The use of immersive virtual environments in jury trials. *Marquette Law Review*, 1073.

Ahn, S.J., Bailenson, J.N., Fox, J., & Jabon, M.E. (2010, in press). Using Automated Facial Expression Analysis for Emotion and Behavior Prediction. in Doevening, K., von Scheve, C., & Konjin, E. A. (Eds.), *Handbook of Emotions and Mass Media*. London/New York: Routledge.

Van Vugt, H., Bailenson, J.N., Konijn, E., & Hoorn, J. (2010). Effects of facial similarity on user responses to embodied agents. *ACM Transactions on Computer Human Interaction*, 17 (2), 7:1-27.

Bailenson, J.N. & Segovia, K.Y. (2010). Virtual doppelgängers: Psychological effects of avatars who ignore their owners. In W. S. Bainbridge (Ed.), *Online worlds: Convergence of the real and the virtual* (175-186). Springer: New York.

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Ahn, S.J., Bailenson, J.N., Fox, J., & Jabon, M.E. (2010, in press). Using Automated Facial Expression Analysis for Emotion and Behavior Prediction. in Doevening, K., von Scheve, C., & Konjin, E. A. (Eds.), *Handbook of Emotions and Mass Media*. London/New York: Routledge.

Van Vugt, H., Bailenson, J.N., Konijn, E., & Hoorn, J. (2010). Effects of facial similarity on user responses to embodied agents. *ACM Transactions on Computer Human Interaction*, 17 (2), 7:1-27.
Bailenson, J.N. & Segovia, K.Y. (2010). Virtual doppelgängers: Psychological effects of avatars who ignore their owners. In W. S. Bainbridge (Ed.), *Online worlds: Convergence of the real and the virtual* (175-186). Springer: New York.

Fox, J., Arena, D., & Bailenson, J.N. (2009). Virtual Reality: A survival guide for the social scientist. *Journal of Media Psychology*, 21 (3), 95-113.

- McCall, C., Bailenson, J.N., Blascovich, J., & Beall, A. C. (2009). Leveraging collaborative virtual environment technology for inter-population research on persuasion in a classroom setting. *PRESENCE: Teleoperators & Virtual Environments*, 18 (5), 361-369.
- Harris, H., Bailenson, J.N., Nielsen A. & Yee, N. (2009). The evolution of social behavior over time in Second Life. *PRESENCE: Teleoperators & Virtual Environments*, 18 (6), 294-303.
- Segovia, K.Y. & Bailenson, J.N. (2009). Virtually true: Children's acquisition of false memories in virtual reality. *Media Psychology*, 12, 371-393.
- Fox, J., Bailenson, J.N., & Binney, J. (2009). Virtual experiences, physical behaviors: The effect of presence on imitation of an eating avatar. *PRESENCE: Teleoperators & Virtual Environments*, 18(4), 294-303.
- Fox, J., & Bailenson, J.N. (2009). Virtual self-modeling: The effects of vicarious reinforcement and identification on exercise behaviors. *Media Psychology*, 12, 1-25.
- 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(2), 195-209.
- Yee, N., Bailenson, J.N., & Ducheneaut, N. (2009). The Proteus Effect: Implications of transformed digital self-representation on online and offline behavior. *Communication Research*, 36 (2), 285-312.
- Segovia, K.Y., Bailenson, J.N., Monin, B. (2009). Morality in tele-immersive environments. *Proceedings of the International Conference on Immersive Telecommunications (IMMERSCOM)*, May 27 - 29, Berkeley, CA, USA.
- Fox, J., & Bailenson, J.N. (2009). Virtual virgins and vamps: The effects of exposure to female characters' sexualized appearance and gaze in an immersive virtual environment. *Sex Roles*, 61 (3-4), 147-157.
- 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.

Brigid Barron

- Barron, B. (2010). Conceptualizing and Tracing Learning Pathways over Time and Setting. In O'Connor, K., & Penuel, W. R. *Learning research as a human science*. New York: Teachers College Press.
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- Barron, B., Pea, R., Engle, R. (in press). Advancing understanding of collaborative learning with data derived from video records. To appear in C.Hmelo-Silver (Ed.) *The Handbook of Collaborative Learning*.
- Barron, B. & Roschelle, J. (2009). Shared Cognition. In Anderman, Eric (ed.). *Psychology of Classroom Learning: An Encyclopedia*, 819-823. Detroit: Macmillan Reference USA.

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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. (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.

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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.

Martin, C. K., Barron, B., Austin, K., & Pinkard, N. (2009, March). A culture of sharing: A look at identity development through the creation and presentation of digital media projects. In *Proceedings of the First International Conference on Computer Supported Education: CSEDU 2009, Volume 2* (pp. 167-174.), Lisboa, Portugal.

Lera Boroditsky

Boroditsky, L. & Gaby, A. (2010). Remembrances of Times East: Absolute Spatial Representations of Time in an Australian Aboriginal Community. *Psychological Science*. doi:10.1177/0956797610386621

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- Fuhrman, O. & Boroditsky, L. (2010). Cross-Cultural Differences in Mental Representations of Time: Evidence from an Implicit Non-Linguistic Task. *Cognitive Science*. DOI: 10.1111/j.1551-6709.2010.01105.x
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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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Chris Chafe

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- J-P. Caceres, C. Chafe, "JackTrip: Under the Hood of an Engine for Network Audio" *J. New Music Res.* (in press, Nov.'10)

C. Chafe, "Tapping into the Internet as a Musical / Acoustical Medium" *Contemporary Music Review*. 28(4,5): 413-420, 2009

C. Chafe, "Audio Setup and the Future of the Telematic Medium" in *Telematic Music: Six Perspectives Leonardo Music J.*, 19, 2009.

Helen Chen

Gilmartin, S., Chen, H.L., Donaldson, K., Lichtenstein, G., Eris, Ö., Lande, M., & Toye, G. (2010). Exploring the Engineering Student Experience: Findings from the Academic Pathways of People Learning Engineering Survey (APPLES) (TR-10-02).

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Karen Cook

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"Trust: Explanations of Social Action and Implications for Social Structure," Karen S. Cook and Alexandra Gerbasi. In *The Handbook of Analytical Sociology*, Peter Hedstrom and Peter Bearman (eds.), Oxford University Press. Oxford, England. (forthcoming, 2010).

"The Role of Public, Organizational and Interpersonal Trust in Economic Affairs," Karen S. Cook and Oliver Schilke. To appear in *Corporate Responsibility Review* (special issue on Public Trust) forthcoming, 2010.

"Rationality and Emotions." Karen S. Cook and Sarah Harkness. To appear in Special Issue (50th edition) of *Kolner Zeitschrift für Soziologie und Sozialpsychologie* (forthcoming, 2010)

Keith Devlin

The Pascal–Fermat Correspondence, *The Mathematics Teacher*, Vol 103, Number 8, NCTM, April 2010, pp.578-582.

The Mathematical Brain, David A. Sousa (ed) *Mind, Brain, and Education: Neuroscience Implications for the Classroom*, Solution Tree Press, 2010, pp.162-177.

Kenji Hakuta

Goto Butler, Y. & Hakuta, K. (2009). The relationship between academic oral proficiency and reading performance: A comparative study between English learners and English-only students. *Reading Psychology*, 30: 412-444.

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Jeffrey Heer

Declarative Language Design for Interactive Visualization, Jeffrey Heer and Michael Bostock. IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis'10), Oct 2010. [Best Paper Honorable Mention]

Narrative Visualization: Telling Stories with Data, Edward Segel and Jeffrey Heer. IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis'10), Oct 2010.

Perceptual Guidelines for Creating Rectangular Treemaps, Nicholas Kong, Jeffrey Heer and Maneesh Agrawala. IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis'10), Oct 2010. [Best Paper Honorable Mention]

All Friends are not Equal: Using Weights in Social Graphs to Improve Search, Sudheendra Hangal, Diana MacLean, Monica S. Lam, Jeffrey Heer. Workshop on Social Networking Mining and Analysis, ACM KDD, Jul 2010.

Social Flows: A System for Mining Social Topologies from Ego-centric Social Networks, Diana MacLean, Sudheendra Hangal, Seng Keat Teh, Monica S. Lam, Jeffrey Heer. ACM Knowledge Discovery and Data Mining (KDD) Demos, Jul 2010.

A Tour through the Visualization Zoo, Jeffrey Heer, Michael Bostock, Vadim Ogievetsky. Communications of the ACM, 53(6), pp. 59-67, Jun 2010.

Tracing Genealogical Data with TimeNets, Nam Wook Kim, Stuart K. Card, Jeffrey Heer. Proc. Advanced Visual Interfaces (AVI), pp. 241-248, May 2010.

Crowdsourcing Graphical Perception: Using Mechanical Turk to Assess Visualization Design, Jeffrey Heer, Michael Bostock. Proc. ACM Human Factors in Computing Systems (CHI), pp. 203-212, Apr 2010. [Best Paper Nominee]

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Pamela Hinds

Patrick, D. & Hinds, P. (2010). The ecology of design education: A qualitative study of design programs. 2nd International Conference on Design Education. Sydney, Australia.

Wang, L., Rau, P., Evers, V., Robinson, B. & Hinds, P. (2010). When in Rome: The role of culture and context in adherence to robot recommendations. ACM International Conference on Human Robot Interaction. Osaka, Japan.

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Leonid Kazovsky

Books:

S.-W. Wong, D. Campelo, and L.G. Kazovsky, "Next-Generation Integrated Metropolitan-Access Network: Technology Integration and Wireless Convergence," 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, in production.

Papers:

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. (*accepted for publication*).

S.-H. Yen, S.-W. Wong, S. Das, Ning Cheng, Jinwoo Cho, S. Yamashita, O. Solgaard, L.G. Kazovsky, "Photonic Components for Future Fiber Access Networks," IEEE Journal on Selected Areas in Communications, vol.28, no.6, pp.928-935, Aug. 2010.

L.G. Kazovsky, She-Hwa Yen, "Photonic Devices for Next-Generation Broadband Fiber Access Networks," Broadband Access Communication Technologies SPIE V (SPIE OPTO 2011), San Francisco, CA, USA, January 2011. Invited paper. (*accepted for publication*).

L. G. Kazovsky, A. Shastri, S.-W. Wong, W.-T. Shaw, N. Cheng, and S.-H. Yen, "Integrated Optical-Wireless Broadband Access Networks," *23rd Annual Meeting of the IEEE Photonics Society*, Denver, CO, USA, November 2010. Invited Paper.

Leonid G. Kazovsky, She-Hwa Yen, Shing-Wa Wong, David Larrabeiti López, Dirk Breuer, Erik Weis, Anujit Shastri, "Key Technologies and Components for Next Generation Optical Access,"

European Conference on Optical Communications (ECOC 2010), Torino, Italy, Sept 2010. Invited paper.

Leonid G. Kazovsky, Shing-Wa Wong, She-Hwa Yen, Anders Gavler, Vinesh Gudla, Pegah Afshar, David Larrabeiti, Dirk Breuer, Erik Weis, Claus Popp Larsen, Marco Forzati, Kun Wang, "Next-Generation Optical Access Networks: Goals, Challenges and Research Opportunities," OSA Photonics and Optics Congress - Access Networks and In-house Communications (ANIC 2010), Karlsruhe, Germany, June, 2010. Plenary paper.

Leonid G. Kazovsky, Claus Popp Larsen, Dirk Breuer, Anders Gavler, Mikhail Popov, Kun Wang, Gunnar Jacobsen, Erik Weis, Christoph Lange, Shing Wa Wong, She-Hwa Yen, Vinesh Gudla, and Pegah Afshar, "European and American Research Toward Next-Generation Optical Access Networks," *International Conference on Transparent Optical Networks (ICTON 2010)*, Munich, Germany, June 2010. Plenary paper.

L.G. Kazovsky, S.-W. Wong, S.-H. Yen, and S. Yamashita, "Next-Generation Optical Access Networks," 93rd Optical Society of America (OSA) Annual Meeting, San Jose, CA, USA, October 2009. Invited paper.

Scott Klemmer

Prototyping Dynamics: Sharing Multiple Designs Improves Exploration, Group Rapport, and Results. Steven P Dow, Julie Fortuna, Dan Schwartz, Beth Altringer, Daniel L Schwartz, and Scott R Klemmer. *Tech Report*

Bricolage: A Structured-Prediction Algorithm for Example-Based Web Design. Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, and Scott R Klemmer. *Tech Report*

Example-Centric Programming: Integrating Web Search into the Development Environment. Joel Brandt, Mira Dontcheva, Marcos Weskamp, Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems*

What Would Other Programmers Do? Suggesting Solutions to Error Messages. Bjoern Hartmann, Daniel MacDougall, Joel Brandt, Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing*

Revising User Interfaces Through Change Tracking, Annotations, and Alternatives. Bjoern Hartmann, Sean Follmer, Antonio Ricciardi, Timothy Cardenas, Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems* video
Introduces d.note, a revision tool for user interface prototypes.

Designing with Interactive Example Galleries. Brian Lee, Savil Srivastava, Ranjitha Kumar, Ronen Brafman, Scott R Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems*

Parallel Prototyping Leads to Better Design Results, More Divergence, and Increased Self-Efficacy. Steven P Dow, Alana Glassco, Jonathan Kass, Melissa Schwarz, Daniel Schwartz, Scott R Klemmer. *ACM Transactions on Computer-Human Interaction*

Programming by a Sample: Leveraging Web Sites to Program Their Underlying Services. Bjoern Hartmann, Leslie Wu, Kevin Collins, Scott R Klemmer. *No Code Required: Giving Users Tools to Transform the Web*

How the Web Helps People Turn Ideas Into Code. Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, Scott R Klemmer. *No Code Required: Giving Users Tools to Transform the Web*

The Efficacy of Prototyping Under Time Constraints . Steven P. Dow, Kate Heddleston, Scott R. Klemmer. *Creativity & Cognition*

When is Collaborating with Friends a Good Idea?. Heidy Maldonado, Scott R. Klemmer, Roy D. Pea. *CSCL: Computer Supported Collaborative Learning*

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

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*

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

Larry Leifer

Book

Meinel, C., Leifer, L., and Plattner, H. (eds.) (2010). "Design Thinking: Understand – Improve – Apply," Series: Understanding Innovation, Springer, Vol.1, November 2010

Papers:

Lande M & L Leifer (2010). Difficulties Student Engineers Face Designing the Future. *International Journal of Engineering Education*. (26:2) 271-277

Carleton, T., and Leifer, L. (2009). "Stanford ME310 course as an evolution of engineering design." *Proceedings of CIRP Design Conference 2009*. Cranfield, UK, pages 547-555
Edelman, J.A., Grosskopf, A., Weske, M., Leifer, L.(2009) *Tangible Business Process Modeling: A New Approach*. 19th international Conference on Engineering Design (ICED'09)

Lande, M. and Leifer, L. (2009). "Introducing a "Ways of Thinking" Framework for Student Engineers Learning to Do Design," *Proceedings of American Society for Engineering Education Conference*. Austin, TX. June 14-17.

Lande, M. and Leifer, L. (2009). "Prototyping to Learn: Characterizing Student Prototyping Activities," *Proceedings of International Conference on Engineering Design*. Stanford, CA. August 24-27.

Lande, M. and Leifer, L. (2009). "Work In Progress – Student Representations and Conceptions of Design and Engineering," *Proceedings of Frontiers in Education Conference*. San Antonio, TX. October 18-21.

Skogstad P., Steinert M., K. Gumerlock, Leifer L. (2009): Why a universal design project outcome performance measurement metric is needed – a discussion based on empirical research, in Norell Bergendahl M., Grimheden M., Steinert M., Leifer L. (2010): *Open Education Resource I: Empirical*

Results on its Demand from an Economics and Management Faculty, at 2010 Academy of Management Annual Meeting, Montréal, Canada, 06.-10.08.2010.

Steinert M., Leifer L. (2010): Open Education Resource II: Empirical Results on its Supply from an Economics and Management Faculty, at 2010 Academy of Management Annual Meeting, Montréal, Canada, 06.-10.08.2010.

Steinert M., Leifer L. (2010): Scrutinizing Gartner's Hype Curve approach, at Portland International Conference on Management of Engineering and Technology 2010 (PICMET), Phuket, Thailand, 18.-22.07.2010.

Aquino Shluzas L, Liefer LJ (2010). "Physician-Developer Interaction in Medical Device Design." Proceedings of the ASME 5th Frontiers in Biomedical Devices Conference. Newport Beach, CA, 20-21 September.

Aquino Shluzas L, JH Linehan and LJ Liefer (2010). "A Case Study of Physician Interaction in the Medical Device Development Process." Proceedings of the ASME 2010 Design of Medical Devices Conference. Minneapolis, MN, 13-15 April.

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Sirkin, D. and Ju, W. (2010) Physicality Matters. Position paper for the New Frontiers of Telepresence workshop at CSCW 2010: ACM Computer Supported Cooperative Work. Savannah, GA.

Jung, M., Sonalkar, N., Mabogunje, A., Banerjee, B., Lande, M., Han, C., et al. (2010, October 19-20). Designing Perception-Action Theories – Theory-Building for Design Practice. Proceedings the Eighth Design Thinking Research Symposium, Sydney, Australia.

Jung, M., Chong, J., & Leifer, L. (2010). Pair Programming Performance: An emotional dynamics point of view from marital pair counseling. Electronic Colloquium on Design Thinking Research (ECDTR).

Larsson, A., Carleton, T., Cockayne, W., and Bill, S. (2010, December). Getting innovation done: Moving beyond the great idea. Management of Technology magazine, 4: 7-9.

Han, B., Sonalkar, N., Lande, M., Jung, M., and Leifer, L. (2010). "Design Basis: Insights about Design Thinking from the perspective of Decision Analysis" at Design Thinking Research Symposium 8, University of Technology Sydney, Sydney, Australia; Oct 19-20.

Lande M & L Leifer (2010). Incubating Engineers and Hatching Design Thinkers: Mechanical Engineering Students Learning Design with Ambidextrous Ways of Thinking. American Society for Engineering Education Conference. Louisville, KY. June 20-23.

Lande M & L Leifer (2009). Work In Progress: Student Representations and Conceptions of Design and Engineering. Frontiers in Education Conference. San Antonio, TX. October 20.

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