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RESEARCH AREAS

Psychology of Human-Computer Interaction (HCI) and Human-Robot Interaction (HRI)
Laboratory and Field Experiments
Applied Statistics

PROFESSIONAL EXPERIENCE

2016 – CURRENT
Founder and human-robot interaction specialist, Hoku Labs, Santa Cruz

- Translating academic research into product and service design recommendations
- Designing user studies and supporting design teams in developing their HRI points of view
- Connecting robotic solutions to real world problems, markets, and users' needs
- Working with clients, including Drive.ai, Nuro, Oceankind, Savioke, Skydio, and Third Wave

2021 – CURRENT
Vice President of design and HRI, Robust.AI

- Leading the human-centered design of robot solutions for warehouse & manufacturing logistics
- Collaborating with product team on business partnership development and GTM strategy
- Developing product and design directions, including need finding and customer development

2016 – 2022
Associate professor (with tenure), University of California, Santa Cruz

- Founded and led an empirical research lab that explored Human-Robot Interaction (HRI)
- Mentored and taught graduate and undergraduate students in HCI

2013 – 2016
Senior user experience researcher, Google X, Mountain View

- Conducted social science research to inform and drive the design of special projects within X, primarily focusing upon Project Wing, a small unmanned aerial vehicle (UAV) delivery service
- Collaborated with engineering and cross-functional product teams to identify user experience goals, metrics of success, use cases, users/markets, competitive advantages, and partnerships
- Consulted for other Alphabet company projects that required effective human-robot interactions

2009 – 2013
Research scientist and manager for Human-Robot Interaction, Willow Garage, Inc., Menlo Park

- Led HRI research, focusing on human responses to personal robots and remote presence
- Informed the design of personal robot forms and behaviors (personal and remote presence robots)
- Brought user-centered design to personal robotics through need finding interviews, contextual inquiry, heuristic analyses, user testing, and iterative design cycles
- Served on company strategy team since January 2011 and management team since May 2012

2008 – 2009

Member of research staff, Nokia Research, Palo Alto, Innovate Design Experience Animate (IDEA) Team

- Collaborated on design exercises for the future of mobile computing user interfaces
- Generated research directions for future studies based upon the design exercises

2005 – 2008

Research assistant, Palo Alto Research Center (PARC), Human Information Interaction (HII) Lab

- Conducted task analysis of work practices of intelligence analysts for informing analyst tools
- Investigated issues of sensemaking and information gathering

2003 – 2008

Research assistant, Stanford, Communication between Humans & Interactive Media (CHIMe) Lab

- Designed, ran, analyzed, and published quantitative, experimental studies on vehicle and voice user interfaces, mobile phone communication, embodied interaction, and human-robot interaction
- Mentored undergraduate and graduate research assistants in experimental methods and writing

2003

Research assistant, IBM Research, Almaden, User Sciences and Experiences Research (USER) Lab

- Conducted field studies and survey of system administrators; published in CHI and CSCW

2001 – 2003

Research assistant, UC Berkeley, Computer Science Group for User Interface Research (GUIR) Lab

- Experimentally compared low-fidelity vs. high-fidelity user interface prototypes
- Conducted contextual inquiries with fire fighters to inform context-aware applications

2001 – 2002

Research assistant, UC Berkeley, Psychology Department

- Conducted studies on implicit learning and flicker frequency effects upon visual grouping

EDUCATION

Stanford University, Ph.D. in Communication, 2008

Throwing Voices: Investigating the Psychological Effects of the Spatial Location of Projected Voices

Committee: Clifford Nass, Herbert H. Clark, Frederick Turner, and Jeremy Bailenson

Stanford University, Ph.D. Minor in Psychology, 2008

M.A. in Communication

University of California, Berkeley, B.A. in Cognitive Science, 2003

B.A. in Psychology

HONORS & AWARDS

Santa Cruz Works, Titans of Tech, 2022
TUM Institute for Advanced Study, Hans Fischer Fellowship, 2019-2022
IEEE Robotics and Automation Society, Early Career Award, 2015
World Economic Forum Young Global Leader, 2013
Technology Review 35 Innovators Under 35 (TR35), 2012
PopTech Science Fellowship, 2012
Fast Company 100 Most Creative People in Business, 2012
Silicon Valley 40 Under 40, 2011
Nathan Maccoby Outstanding Dissertation Award (granted only in years when justified), 2008
Phi Beta Kappa; Golden Key National Honour Society; Psi Chi, Psychology Honors Society

RESEARCH GRANTS

2021-2022 Honda Research Institute: Human-Robot Collaboration and Satisfaction. $177,041. Sole PI: Leila Takayama.

2020-2021 Honda Research Institute: Robot Crowd Navigation. $208,500. Sole PI: Leila Takayama.

2019 Google Faculty Research Award: Making collaborative robots more teachable: Empirically exploring how to elicit feedback from untrained end-users. $61,252. Sole PI: Leila Takayama.

2018-2021 Honda Research Institute: Research Grant for work on Formalizing Mathematical Models of Robot Curiosity. $377,377. Subcontract with PI Siddhartha Srinivasa.

2018-2019 UCSC Committee on Research (COR): Faculty Research Grant (FRG) for Telepresence Robotics for Increasing Accessibility and Visitor Engagement at the Seymour Marine Discovery Center. $1500. Sole PI: Leila Takayama.

2018 Koret Scholarship: Research Grant for supporting undergraduate research. $1000. Mentor for Natalie Friedman.

2017-2019 Accenture Technology Labs: Research Grant for work on Human-Robot Interaction. $194,000. Sole PI: Leila Takayama.

2017 Hitachi America, Ltd.: Research Grant for work on Human-Robot Interaction with Personality. $100,000. Co-PI with Marilyn Walker.

2012 National Science Foundation: National Robotics Initiative (NRI) collaborative grant. NRI-Small: Spatial Primitives for Enabling Situated Human-Robot Interaction (Senior Personnel with Maja Matarić, Donna Sprujit Metts, and Clifford Nass as PIs). Award #IIS-1208500. $750,000 over 3 years.

2012 National Science Foundation: Expeditions, Collaborative Research. Socially Assistive Robots (Senior Personnel with Brian Scassellati, Maja Matarić, and Cynthia Breazeal as PIs). Award #1139078. $10,000,000 over 5 years.

2011 National Science Foundation: Human Centered Computing. Embodied Mediated Communication in Collaborative Work (Co-PI with Bilge Mutlu). Award #1117652. $487,810 over 3 years.

NATIONAL AND INTERNATIONAL COMMITTEES

World Economic Forum, Young Global Leader 2013-2017
World Economic Forum, 2016-2018 Global Future Council on the Future of Computing
World Economic Forum, 2014-2016 Global Agenda Meta-Council on Emerging Technologies member
World Economic Forum, 2014-2016 Global Agenda Council on AI & Robotics member
World Economic Forum, 2011-2014 Global Agenda Council on Robotics & Smart Devices member
NASA review panel member 2016-2017
NSERC Collaborative 2012, 2021 review panel member
NSF 2011, 2018 review panel member

PROFESSIONAL TRAINING

World Economic Forum, Young Global Leaders program
    Leading at the Edge, Oxford University 2016
    Leadership and Decision Making in the 21st Century, Yale University 2014

BOARD MEMBERSHIP

Advisory Board for Farm-ng, 2023-current
Advisory Board for Companion, 2017-current
Advisory Board for Cobalt Robotics, 2016-current
Technical Advisory Board for Suitable Technologies, a spin-off of Willow Garage, Inc. 2011-2014

PATENTS

P5. Robotic cart, US Patent #12135553B2, Issued Nov 5, 2024. Rodney Allen Brooks, Anthony Sean Jules, Leila Takayama.

P4. Supervisory control of an unmanned aerial vehicle, US Patent #9817396B1, Issued Nov 14, 2017. Leila Takayama, Brandon Alexander, Roger William Graves, Justin Sadowski, and Abraham Bachrach.

P3. Interaction during delivery from aerial vehicle, US Patent #9630715B2, Issued Apr 25, 2017. Leila Takayama, Matthew Ball, Joanna Cohen, Roger William Graves, Mathias Samuel Fleck, Andrew Lambert, James Ryan Burgess, Paul Richard Komarek, Trevor Shannon.

P2. Bystander interaction during delivery from an aerial vehicle, US Patent #9321531, Issued Apr 26, 2016. Leila Takayama, Matthew Ball, Joanna Cohen, Roger William Graves, Mathias Samuel Fleck, Andrew Lambert, James Ryan Burgess, Paul Richard Komarek, Trevor Shannon.

P1. Ground-sensitive trajectory generation for UAVs, US Patent #9262929, Issued Feb 16, 2016. Nick Roy, Leila Takayama, Mathias Samuel Fleck, Roger William Graves.

PUBLICATION HONORS

Best Paper, VRST 2021, HRI 2024
Best Full Paper Nomination, HRI 2009, HRI 2011, CHI 2011
Best Note Nomination, CSCW 2010

EDITED BOOK

E1. Adams, J., Mutlu, B., Smart, W., & Takayama, L. (2015). HRI 2015: Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction, ACM Press.

JOURNAL ARTICLES

J13. Fox Tree, J. E., Herring, S. C., Nguyen, A., Whittaker, W., Martin, R., & Takayama, L. (2024). Conversational fluency and attitudes toward robot pilots in telepresence robot-mediated interactions, Journal of Computer Supported Cooperative Work, 33 (3), 473-498.

J12. Fox Tree, J. E., Whittaker, S., Herring, S. C., Chowdhury, Y., Nguyen, A., & Takayama, L. (2021). Psychological distance in mobile telepresence. International Journal of Human Computer Studies, 151. doi:10.1016/j.ijhcs.2021.102629

J11. McHugh, S. R., Callanan, M. A., Weatherwax, K., Jipson, J. L., & Takayama, L. (2021). Unusual artifacts: Linking parents' STEM background and children's animacy judgments to parent–child play with robots. *Human Behavior and Emerging Technologies, 3* (4), 525–539. https://doi.org/10.1002/hbe2.286

J10. Hughes, B. P., Weatherwax, K., Moxley-Fuentes, M., Kaur, G., Davidenko, N., & Takayama, L. (2020). The influence of gaming frequency and viewing perspective on a remote robot operation task. Journal of Vision, 20 (11). doi:10.1167/jov.20.11.1706

J9. Fitter, N. T., Raghunath, N., Cha, E., Sanchez, C. A., Takayama, L., & Matarić, M. (2020). Are we there yet? Comparing remote learning technologies in the university classroom. IEEE Robotics and Automation Letters, 5 (2), 2706-2713.

J8. Takayama, L. (2017). The motivations of ubiquitous computing: Revisiting the ideas behind and beyond the prototypes. Journal of Personal and Ubiquitous Computing, 21, 1-13.

J7. Chen, T., Ciocarlie, M., Cousins, S., Grice, P.M., Hawkins, K., Hsiao, K., Kemp, C., King, C.-H., Lazewatsky, D., Leeper, A.E., Nguyen, H., Paepcke, A., Pantofaru, C., Smart, W., & Takayama, L. (2013). Robots for humanity: A case study in assistive mobile manipulation. IEEE Robotics and Automation Magazine, 20 (1), 30-39.

J6. Jabon, M.E., Bailenson, J.N., Pontikakis, E., Takayama, L., & Nass, C. (2011). Facial expression analysis for predicting unsafe driving behavior. IEEE Pervasive Computing 10(4), 84-95.

J5. Koenig, N., Takayama, L. & Matarić, M. (2010). Communication and knowledge sharing in human-robot interaction. Neural Networks, 23(8-9), 1104-1112.

J4. Ochi, P., Rao, S., Takayama, L., & Nass, C. (2010). Predictors of user perceptions of web recommender systems: How the basis for generating experience and search product recommendations affects user responses. International Journal of Human-Computer Studies, 68(8), 472-482.

J3. Ju, W. & Takayama, L. (2009). Approachability: How people interpret automatic door movement as gesture. International Journal of Design, 3(2).

J2. Takayama, L., & Nass, C. (2008). Assessing the effectiveness of interactive media in improving drowsy driver safety. Human Factors, 50(5), 772-781.

J1. Takayama, L., & Nass, C. (2008). Driver safety and information from afar: An experimental driver simulator study of wireless vs. in-car information services. International Journal of Human-Computer Studies, 66(3), 173-184.

BOOK CHAPTERS

BC4. Takayama, L. (2015). Telepresence and apparent agency in human-robot interaction. In Sundar, S. (Ed.), Handbook on the Psychology of Communication Technology. Malden, MA: Wiley Blackwell, 160-175.

BC3. Takayama, L. (2012). Perspectives on agency: Interacting with and through personal robots. In Zacarias, M. & Oliveira, J. V. (Eds.), Human-Computer Interaction: The Agency Perspective. Springer, 195-214.

BC2. Takayama, L. (2011). Toward making robots invisible-in-use: An exploration into invisible-in-use tools and agents. In Dautenhahn, K. (Ed.), New Frontiers in Human-Robot Interaction. Amsterdam, NL: John Benjamins, 111-132.

BC1. Nass, C., Takayama, L., & Brave, S. (2006). Social consistency: From technical homogeneity to human epitome. In Zhang, P. & Galletta, D. (Eds.), Human-computer Interaction in Management Information Systems: Foundations. Armonk, NY, USA: M. E. Sharpe, 373-391.

PEER-REVIEWED CONFERENCE PAPERS

C63. Crosby, A., Takayama, L., Martin, E. J., Matsumoto, G. I., Katija, K., and Caress, D. M. (2024). Beyond bunkspace: Telepresence for deep sea exploration. Proceedings of the IEEE Telepresence Conference.

C62. Weatherwax, K., Dooley, D., Carstensdottir, E., & Takayama, L. (2024). The case of the curious robot: On the social viability of curious behavior in non-human agents. Proceedings of the ACM Conference on Intelligent Virtual Agents (IVA).

C61. Lakshminarayanan, S., Duecker, D. A., Sarabakha, A., Ganguly, A., Takayama, L., & Haddadin S. (2024). Estimation of external force acting on underwater robots. Proceedings of the IEEE Conference on Automation Science and Engineering (CASE).

C60. Mahadevan, K., Chien, J., Brown, N., Xu, Z., Parada, C., Xia, F., Zeng, A., Takayama, L., & Sadigh, D. (2024). Generative expressive robot behaviors using large language models. Proceedings of Human-Robot Interaction, HRI 2024, 482-491. [Best paper – technical track]

C59. Liang, J., Xia, F., Yu, W., Zeng, A., Attarian, M., Villalonga, M. B., Bennice, M., Bewley, A., Dostmohamed, A., Fu, C., Gileadi, N., Giustina, M., Gopalakrishnan, K., Hasenclever , L.., Humplik, J., Hsu, J., Joshi, N. J., Jyenis, B., Kew, J. C., Kirmani, S., Lee., T., E., Lee, K., Michaely, A. H., Moore, J., Oslund, K., Rao, D., Ren, A. Z., Tabanpour, B., Vuong, Q., Wahid, A., Xiao, T., Xu, Y., Zhuang, V., Xu, P., Frey, E., Caluwaerts, K., Zhang, T., Ichter, B., Tompson, J., Takayama, L., Vanhoucke, V., Shafran, I., Matarić, M., Sadish, D., Heess, N., Rao, K., Stewart, N., Tan, J., & Parada, C. (2024). Learning to Learn Faster from Human Feedback with Language Model Predictive Control. Proceedings of Robotics Science and Systems (RSS).

C58. Francis, A. G., Parada, C., Kalashnikov, D., Lee, E., Fei, X., Varley, J., Tan, J., Choromanski, K. M., Takayama, L., Persson, M., Xu, P., Tu, S., Singh, S., Zhang, T., Sindhwan, V., & Xiao, X. (2022). Learning model predictive controllers with real-time attention for real-world navigation. Proceedings of CORL 2022.

C57. Moortgat-Pick, A., So, P., Sack, M., Cunningham, E., Hughes, B., Adamczyk, A., Sarabakha, A., Takayama, L., & Haddadin, S. (2022). A-RIFT: Visual Substitution of Force Feedback for a Zero-Cost Interface in Telemanipulation. Proceedings of IROS 2022.

C56. Elor, A., Kurniawan, S., & Takayama, L. (2022). Human Experiences in teaching robots: Understand agent expressivity and learning effects through a virtual robot arm. Proceedings of SmartComp.

C55. Nanavati, A., Walker, N., Taber, L., Mavrogiannis, C., Takayama, L., Cakmak, M., & Srinivasa, S. (2022). Not All Who Wander Are Lost: A Localization-Free System for In-The-Wild Mobile Robot Deployments. Proceedings of Human-Robot Interaction, HRI 2022. [25% acceptance rate]

C54. Elor, A., Thang, T., Hughes, B. P., Crosby, A., Phung, A., Gonzalez, E., Katija, K., Haddock, S. H. D., Martin, E. J., and Takayama, L. (2021). Catching jellies in immersive virtual reality: A comparative teleoperation study of ROVs in underwater capture tasks. ACM VRST 2021. [26% acceptance rate – best paper]

C53. Nanavati, A., Mavrogiannis, C., Weatherwax, K., Takayama, L., Cakmak, M., & Srinivasa, S.S. (2021). Modeling Human Helpfulness with Individual and Contextual Factors for Robot Planning. Proceedings of Robotics Science and Systems (RSS), Virtual.

C52. Fitter, N., T., Strait, M., Bisbee, E., Matarić, M., & Takayama, L. (2021). You're Wigging Me Out!: Is Personalization of Telepresence Robots Strictly Positive? Proceedings of Human-Robot Interaction, HRI 2021, Boulder, CO, 168-176. [23% acceptance rate]

C51. Fitter, N. T., Rush, L., Cha, E., Groechel, T., Matarić, M., & Takayama, L. (2020). Closeness is key over long distances: Effects of interpersonal closeness on telepresence experience. Proceedings of Human-Robot Interaction, HRI 2020, Cambridge, UK, 499-507. [24% acceptance rate]

C50. Walker, N., Weatherwax, K., Allchin, J., Takayama, L., & Cakmak, M. (2020). Human perceptions of a curious robot that performs off-task actions. Proceedings of Human-Robot Interaction, HRI 2020, Cambridge, UK, 529-538. [24% acceptance rate]

C49. Fitter, N., Chowdhury, Y., Cha, E., Takayama, L., & Matarić, M. (2018). Evaluating the Effects of Personalization on Telepresence Robots for Education. Extended Abstracts of Human-Robot Interaction, HRI 2018, Chicago, IL, 109-110.

C48. Choi, M., Kornfield, R., Mutlu, B., & Takayama, L. (2017). Movement Matters: Effects of motion and mimicry on perception of similarity and closeness in robot-mediated communication. Proceedings of Human Factors in Computing Systems: CHI 2017, Denver, CO, 325-335. [25% acceptance rate]

C47. Chung, M. J.-Y., Huang, J., Takayama, L., Lau, T. & Cakmak, M. (2016). Iterative design of a system for programming socially interactive service robots. Proceedings of the International Conference on Social Robotics: ICSR 2016.

C46. Srinivasan, V. & Takayama, L. (2016). Help me please: Robot politeness strategies for soliciting help from humans. Proceedings of Human Factors in Computing Systems: CHI 2016, 4945-4955. [23% acceptance rate]

C45. Johnson, S., Rae, I. Mutlu, B. & Takayama, L. (2015). Can you see me now? How field of view affects collaboration in robotic telepresence. Proceedings of Human Factors in Computing Systems: CHI 2015, Seoul, Republic of Korea, 2397-2406. [25% acceptance rate]

C44. Fischer, K., Soto, B., Pantofaru, C., & Takayama, L. (2014). Initiating interactions in order to get help: Effects of social framing on people's responses to robots' requests for assistance. Proceedings of Robot and Human Interactive Communication: RO-MAN 2014, Edinburgh, UK, 999-1005.

C43. Alexandrova, S., Cakmak, M., Hsiao, K., & Takayama, L. (2014). Robot programming by demonstration with interactive action visualizations. Proceedings of Robotics Science and Systems: RSS 2014, Berkeley, California.

C42. Rae, I., Mutlu, B., & Takayama, L. (2014). Bodies in Motion: Mobility, presence, and task awareness in telepresence. Proceedings of Human Factors in Computing Systems: CHI 2014, Toronto, Canada, 2153-2162. [23% acceptance rate]

C41. Cakmak, M. & Takayama, L. (2014). Teaching people how to teach robots: The effect of instructional materials and dialog design. Proceedings of Human-Robot Interaction: HRI 2014, Bielefeld, Germany, 431-438. [24% acceptance rate]

C40. Rae, I., Takayama, L. & Mutlu, B. (2013). In-body experiences: Embodiment, control, and trust in robot-mediated communication. Proceedings of Human Factors in Computing Systems: CHI 2013, Paris, France, 1921-1930. [20% acceptance rate]

C39. Takayama, L. & Harris, H. (2013). Presentation of (telepresent) self: On the double edged effects of mirrors. Proceedings of Human-Robot Interaction: HRI 2013, Tokyo, Japan, 381-388. [25% acceptance rate]

C38. Rae, I., Takayama, L. & Mutlu, B. (2013). The influence of height in robot-mediated communication. Proceedings of Human-Robot Interaction: HRI 2013, Tokyo, Japan, 1-8. [25% acceptance rate]

C37. Cakmak, M. & Takayama, L. (2013). Towards a comprehensive chore list for domestic robots. Proceedings of Human-Robot Interaction: HRI 2013 (Late Breaking Report), Tokyo, Japan, 93-94.

C36. Chen, T., Ciocarlie, M., Cousins, S., Grice, P., Hawkins, K., Hsiao, K., Kemp, C., King, C.-H., Lazewatsky, D., Leeper, A., Nguyen, H., Paepcke, A., Pantofaru, C., Smart, W., & Takayama, L. (2013). Robots for humanity: User-centered design for assistive mobile manipulation. Proceedings of Intelligent Robots and Systems: IROS 2012, Algarve, Portugal, 5434-5435.

C35. Takayama, L., Pantofaru, C., Robson, D., Soto, B., & Barry, M. (2012). Making technology homey: Finding sources of satisfaction and meaning in home automation. Proceedings of Ubiquitous Computing: Ubicomp 2012, Pittsburgh, PA, 511-520. [19% acceptance rate]

C34. Rae, I., Takayama, L., & Mutlu, B. (2012). One of the gang: Supporting in-group behavior for embodied mediated communication. Proceedings of Human Factors in Computing Systems: CHI 2012, Austin, TX, 3091-3100. [23% acceptance rate]

C33. Pantofaru, C., Takayama, L., Foote, T., & Soto, B. (2012). Exploring the role of robots in home organization. Proceedings of Human-Robot Interaction: HRI 2012, Boston, MA, 327-334. [25% acceptance rate]

C32. Leeper, A., Hsiao, K., Ciocarlie, M., Takayama, L., & Gossow, D. (2012). Strategies for human-in-the-loop robotic grasping. Proceedings of Human-Robot Interaction: HRI 2012, Boston, MA, 1-8. [25% acceptance rate]

C31. Takayama, L. & Go, J. (2012). Mixing metaphors in mobile remote presence. Proceedings of Computer Supported Cooperative Work: CSCW 2012, Seattle, WA, 495-504.

C30. Ju, W. & Takayama, L. (2011). Should robots or people do these jobs? A survey of robotics experts and non-experts about which jobs robots should do. Proceedings of Intelligent Robotic Systems: IROS 2011, San Francisco, CA, 1158-1166. [32% acceptance rate]

C29. Paepcke, A., Soto, B., Takayama, L., Koenig, F., & Gassend, B. (2011). Yelling in the hall: Using sidetone to address a problem with mobile remote presence systems. Proceedings of the Symposium on User Interface Software and Technology: UIST 2011, Santa Barbara, CA, 107-116. [25% acceptance rate]

C28. Takayama, L., Marder-Eppstein, E., Harris, H., & Beer, J. M. (2011). Assisted driving of a mobile remote presence system: System design and controlled user evaluation. Proceedings of the International Conference on Robotics and Automation: ICRA 2011, Shanghai, CN, 1883-1889.

C27. Lee, M. K. & Takayama, L. (2011). "Now, I have a body": Uses and social norms of mobile remote presence in the workplace. Proceedings of Human Factors in Computing Systems: CHI 2011, Vancouver, CA, 33-42. [26% acceptance rate; nominated for best paper = top 5%]

C26. Beer, J. M. & Takayama, L. (2011). Mobile remote presence systems for older adults: Acceptance, benefits, and concerns. Proceedings of Human-Robot Interaction: HRI 2011, Lausanne, CH, 19-26. [21% acceptance rate; nominated for best paper = top 6%]

C25. Takayama, L., Dooley, D., & Ju, W. (2011). Expressing thought: Improving robot readability with animation principles. Proceedings of Human-Robot Interaction: HRI 2011, Lausanne, CH, 69-76. [21% acceptance rate]

C24. Takayama, L. (2010). On making robots invisible-in-use. Proceedings of International Symposium on New Frontiers in Human Robot Interaction: AISB 2010, Leicester, UK.

C23. Paepcke, S. & Takayama, L. (2010). Judging a bot by its cover: An experiment on expectation setting for personal robots. Proceedings of Human-Robot Interaction: HRI 2010, Osaka, JP, 45-52. [21% acceptance rate]

C22. Goodfellow, I., Koenig, N., Muja, M., Pantofaru, C., & Takayama, L. (2010). Help me help you: Interfaces for personal robots. Late breaking results of Human-Robot Interaction: HRI 2010, Osaka, JP, 187-188.

C21. Takayama, L. & Nass, C. (2010). Throwing voices: The psychological impact of the spatial height of projected voices. Proceedings of Computer Supported Cooperative Work: CSCW 2010, Savannah, GA, USA, 91-94. [20% acceptance rate; nominated for best note]

C20. Takayama, L., Pantofaru, C. (2009). Influences on proxemic behaviors in human-robot interaction. Proceedings of Intelligent Robotic Systems: IROS 2009, St. Louis, MO, USA, 5495-5502.

C19. Takayama, L., Groom, V., & Nass, C. (2009). I'm sorry, Dave: I'm afraid I won't do that: Social aspects of human-agent conflict. Proceedings of Human Factors in Computing Systems: CHI 2009, Boston, MA, USA, 2099-2108. [25% acceptance rate]

C18. Takayama, L., Sison, J. G., Lathrop, B., Wolfe, N., Chiang, A., Nielsen, A., & Nass, C. (2009). Bringing design considerations to the mobile phone and driving debate. Proceedings of Human Factors in Computing Systems: CHI 2009, Boston, MA, USA, 1643-1646. [25% acceptance rate]

C17. Sohn, T., Takayama, L., Eckles, D., & Ballagas, R. (2009). Auditory priming for upcoming events. Extended Abstracts of CHI 2009, Boston, MA, USA, 4225-4230. [34% acceptance rate]

C16. Sohn, T., Ballagas, R., & Takayama, L. (2009). At your service: Using butlers as a model to overcome the mobile attention deficit. Extended Abstracts of CHI 2009, 4219-4224. [34% acceptance rate]

C15. Takayama, L. (2009). Making sense of agentic objects and teleoperation: In-the-moment and reflective perspectives. Late breaking results of Human-Robot Interaction: HRI 2009, San Diego, CA, USA, 239-240.

C14. Groom, V., Takayama, L., & Nass, C. (2009). I am my robot: The impact of robot-building and robot form on operators. Proceedings of the Human-Robot Interaction: HRI 2009, San Diego, CA, USA, 31-36. [19% acceptance rate; nominated for best paper]

C13. Ju, W., Takayama, L., & Nass, C. (2008). Approachability: How people interpret automatic door movement as gesture. Proceedings of Design and Emotion, Hong Kong, CN.

C12. Takayama, L., Ju, W., & Nass, C. (2008). Beyond Dirty, Dangerous and Dull: What everyday people think robots should do. Proceedings of the Human-Robot Interaction: HRI 2008, Amsterdam, NL, 25-32. [36% acceptance rate]

C11. Danninger, M., Takayama, L., Wang, Q., Schultz, C., Beringer, J., James, F., Hofmann, P., & Nass, C. (2007). Can you talk or only Touch-Talk? A VoIP-based phone feature for quick, quiet, and private communication. Proceedings of the International Conference on Multimodal Interfaces: ICMI 2007, JP, 154-161.

C10. Takayama, L., & Kandogan, E. (2006). Trust as an underlying factor of system administrator interface choice. Extended Abstracts of Human Factors in Computing Systems: CHI 2006, USA, 1391-1396. [23% acceptance rate]

C9. Klemmer, S. R., Hartmann, B., & Takayama, L. (2006). How bodies matter: Five themes for interaction design. Proceedings of Designing Interactive Systems: DIS 2006, USA, 140-148. [22% acceptance rate]

C8. Danninger, M., Kluge, T., Robles, E., Takayama, L., & Wang, Q. (2006). The Connector service: Predicting availability in mobile contexts. Proceedings of the Workshop on Multimodal Interaction and Related Machine Learning Algorithms: MLMI 2006, USA, 129-141.

C7. Nass, C., Jonsson, I., Harris, H., Reaves, B., Endo, J., Brave, S., & Takayama, L. (2005). Improving automotive safety by pairing driver emotion and car voice emotion. Extended Abstracts of Human Factors in Computing Systems: CHI 2005, USA, 1973-1976. [25% acceptance rate]

C6. Jonsson, I., Nass, C., Harris, H., & Takayama, L. (2005). Matching in-car voice with driver state: Impact on attitude and driving performance. Proceedings of the International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, USA, 173-180.

C5. Barrett, R., Kandogan, E., Maglio, P. P., Haber, E., Takayama, L., & Prabaker, M. (2004). Field studies of computer system administrators: Analysis of system management tools and practices. Proceedings of Computer Supported Cooperative Work: CSCW 2004, USA, 388-395. [30% acceptance rate]

C4. Jiang, X., Hong, J. I., Takayama, L., & Landay, J. A. (2004). Ubiquitous computing for firefighters: Field studies and prototypes of large displays for incident command. Proceedings of Human Factors in Computing Systems: CHI 2004, Austria, 679-686. [16% acceptance rate]

C3. Jiang, X., Chen, N. Y., Hong, J. I., Wang, K., Takayama, L., & Landay, J. A. (2004). Siren: Context-aware computing for firefighting. Proceedings of Pervasive 2004, Austria, 87-105. [13% acceptance rate]

C2. Takayama, L., Leung, L., Jiang, X., & Hong, J. I. (2003). You're getting warmer! How proximity information affects search behavior in physical spaces. Extended Abstracts of Human Factors in Computing Systems: CHI 2004, USA, 1028-1029. [16% acceptance rate]

C1. Walker, M., Takayama, L., & Landay, J. A. (2002). Low- or high-fidelity, paper or computer? Choosing attributes when testing web prototypes. Proceedings of the Human Factors and Ergonomics Society: HFES 2002, USA, 661-665.

WORKSHOP PAPERS

W6. Pantofaru, C. & Takayama, L. (2011). Need finding: A tool for directing robotics research and development. RSS 2011 workshop perspectives and contributions to robotics from the human sciences.

W5. Takayama, L. (2009). Toward a science of robotics: Goals and standards for experimental research. RSS 2009 workshop on good experimental methodology in robotics.

W4. Eckles, D., Ballagas, R., & Takayama, L. (2009). The design space of computer-mediated communication: Dimensional analysis and actively mediated communication. CHI 2009 workshop on social mediating technologies.

W3. Ames, M., Go, J., Takayama, L., Raffle, H., Spasojevic, M., & Ballagas, R. (2008) Exploring family communication and technology use with an eye to design. CSCW 2009 workshop on family communication.

W2. Takayama, L. & Card, S. K. (2008). Tracing the microstructure of sensemaking. CHI 2008 workshop on sensemaking.

W1. Takayama, L. (2008). Human embodiment matters in human-robot interaction. HRI 2008 pioneers workshop.

HONORS FROM STUDENTS

UC Santa Cruz, Dept of Psychology, Engaging Research Lab (2017)
UC Santa Cruz, Kresge College, Graduating Seniors' Favorite Faculty (2017)

MENTORING

PhD and Postdoc Advisor

Alison Crosby, University of California, Santa Cruz, Computational Media, PhD student 2020-2021
Amelia Wang, University of California, Santa Cruz, Computational Media, PhD student 2020-2021
Kevin Weatherwax, University of California, Santa Cruz, Computational Media, PhD student 2018-2021
Nicholas Santer, University of California, Santa Cruz, Psychology, PhD student, 2017-2018
Benjamin Hughes, University of California, Santa Cruz, Psychology, PhD student, 2017-2018
Yasmin Chowdhury, University of California, Santa Cruz, Psychology, PhD student, 2016-2018
Maya Cakmak, Willow Garage, post-doctoral scholar, 2013

PhD Dissertation Committee Member

Yasmin Chowdhury, UC Santa Cruz, Psychology, PhD candidate, Spring 2024
Lee Taber, UC Santa Cruz, Computational Media, PhD candidate, Spring 2023
Tiffany Thang, UC Santa Cruz, Computational Media, PhD candidate, Spring 2023
Michael Powell, UC Santa Cruz, Computer Engineering, PhD candidate, Summer 2022
Peter Cottrell, UC Santa Cruz, Computational Media, PhD candidate, Summer 2021
Trevor D'Arcey, UC Santa Cruz, Psychology, PhD candidate, Fall 2020
Lillian Yang, Simon Fraser University, Interactive Arts & Technology, Summer 2020
Chris Karzmark, UC Santa Cruz, Psychology PhD candidate, Spring 2020
Nicola Antrilli, UC Santa Cruz, Psychology PhD candidate, Spring 2019
Alina Larson, UC Santa Cruz, Psychology PhD candidate, Spring 2019
Victoria Hollis, UC Santa Cruz, Psychology PhD candidate, Winter 2019
Laura Herlant, CMU Robotics Institute, Robotics PhD candidate, Spring 2018
Irene Rae, University of Wisconsin, Madison, Computer Science PhD candidate, Spring 2015
Julia Fink, EPFL, École Polytechnique Fédérale de Lausanne, Robotics, Summer 2014
Sigurður Örn Aðalgeirsson, MIT Media Lab, Media Arts & Sciences PhD candidate, Spring 2014
Jenay Beer, Willow Garage intern, Georgia Tech Engineering Psychology, PhD candidate, Fall 2013
Min Kyung Lee, CMU HCII, Computer Science PhD candidate, Fall 2013

Research Mentor for Interns and Graduate Students

Leena Mathur, HRI researcher at Robust.AI, Summer 2024
Amelia Wang, UX researcher at Robust.AI, Summer 2022
Nicholas Santer, UX researcher at Robust.AI, Winter 2022
Vivian Chu, Google X intern, Georgia Tech Robotics PhD student, Summer 2015
Danae Holmes, Google X research assistant, 2015
Tiane Lee, Google X research assistant, 2014-2015
Bianca Soto, Google X research assistant, 2014
Andrew Lambert, Google X research assistant, 2013-2014
Maya Cakmak, Willow Garage intern, Georgia Tech Robotics PhD, Summer-Fall 2012
Vasant Srinivasan, Willow Garage intern, Texas A&M, CS PhD student, Fall 2011
Irene Rae, Willow Garage intern, University of Wisconsin, Madison, CS PhD student, Summer 2011& 2012
Min Kyung Lee, Willow Garage visiting scholar, CMU HCII PhD student, Spring-Summer 2010
Helen Harris, Willow Garage intern, Stanford Communication PhD student, Summer 2010
Jenay Beer, Willow Garage intern, Georgia Tech Engineering Psychology PhD student, Summer 2010
Laureen Lam, Stanford Comm 268, Stanford Computer Science Masters student, Winter-Spring 2010
Victoria Groom, Willow Garage intern, Stanford Communication PhD student, Summer 2009

Nathan Koenig, Willow Garage intern, USC Robotics PhD student, Summer 2009-Winter 2010
Steffi Paepcke, Willow Garage intern, Spring-Summer 2009

TEACHING

Instructor: Human-Robot Interaction (Computational Media 237)
University of California, Santa Cruz, Spring 2020 and 2021 (graduate)
Mentoring students through reading discussions and designing their own HRI pilot studies (8 students)

Instructor: Interaction Design Research (Computational Media 178)
University of California, Santa Cruz, Winter 2020 (undergraduate)
Lecturing, mentoring interdisciplinary project teams through UX design research projects (120 students)

Instructor: Field Study in Psychology (Psych 193)
University of California, Santa Cruz, Fall 2019 and Winter 2019 (undergraduate)
Mentoring Psychology students through their field study community volunteer work (21 students total)

Instructor: Psychology Research Methods (Psych 100)
University of California, Santa Cruz, Spring 2017, Spring 2018, and Fall 2019 (undergraduate)
Lecturing, hosting guest speakers, mentoring student research project teams (210, 190, and 240 students)

Instructor: Human-Robot Interaction (Psych 139M)
University of California, Santa Cruz, Winter 2017 and Spring 2019 (undergraduate)
Lecturing, hosting guest speakers, mentoring students through HRI research projects (30 students each)

Instructor: Human Factors Designing Technology with People in Mind (Psych 128)
University of California, Santa Cruz, Fall 2016, 2017, and 2019 (undergraduate)
Lecturing, hosting guest speakers, mentoring students through HCI projects (60, 60, and 120 students)

Co-instructor: Experimental Research in Advanced User Interfaces
Stanford University, Winter 2007 (undergraduate and graduate)
Instructing and mentoring interdisciplinary teams (40 students total) to design and conduct experiments

Teaching Assistant: Computers and Interfaces: Psychological and Social Issues
Stanford University, Winter 2006 (undergraduate and graduate)
Taught two discussion sections each week (30 students total), guided project teams, led guest lectures

Project Team Lead: Experimental Research in Advanced User Interfaces
Stanford University, Winter and Spring 2004-2008 (undergraduate and graduate)
Guided four teams (14 students) to develop research questions, design, run, analyze, and publish studies

KEYNOTE TALKS

On Making Robots Invisible-in-Use, Fall 2024
IEEE International Conference on Robot and Human Interactive Communication, Pasadena, CA

On Making Robots Invisible-in-Use, Summer 2024
Hi! Paris Symposium on AI and Society, Paris, France

Putting Human-Robot Interaction Research into Design Practice, Spring 2022
Human-Robot Interaction (HRI) Conference, online

Human-Robot Interaction, Winter 2021
CITRIS Women in Tech Symposium, online

Connecting via Robot, Fall 2018
Networked Society Symposium, University of Melbourne, Australia

What Is It Like To Be a Robot, Fall 2017
Tech Pulse Conference, Santa Clara, CA

Social Competence in Human-Robot Interaction, Winter 2017
IsraHCI Conference, Tel Aviv

Perceptions of Agency in Human-Robot Interaction, Fall 2016
Human-Agent Interaction (HAI) Conference, Singapore

GUEST LECTURES & INVITED TALKS

Taking on Global Challenges with Embodied AI, Winter 2024
Bankinter Innovation Foundation forum on Embodied AI

On Designing Robots Invisible-in-Use, Fall 2024
Stanford University: Human-Centered AI (CS 139)

On Designing Robots for People, Fall 2024
TEDx Palo Alto, Palo Alto, California

On Making Robots Invisible-in-Use, Spring 2024
UC San Diego Robotics Seminar

Why Robots Need Social Skills, Fall 2022
NeurIPS Workshop: Trustworthy Robotics

Remote Collaboration via Telepresence Robots, Fall 2021
NSERC Canadian Robotics Network (NCRN)

Human-Centered Explorations of Robotic Telepresence, Fall 2021
IEEE Telepresence

Human-Centered Approaches to Designing Robotic Systems, Summer 2021
Munich_i High Tech platform at Automatica

Social Considerations for Curious Robots, Spring 2021
ICRA Workshop: Curious Robots: Modern Approaches for Intrinsically-Motivated Intelligent Behavior

Toward More Human-Centered Robotics for Ocean Science, Winter 2021
Monterey Bay Aquarium Research Institute

Toward a More Human-Centered Future of Robotics, Fall 2020
UPenn GRASP Lab Seminar

Human-Centered Approaches to Developing Ocean Exploration Robots, Summer 2020
TekTite 2020: Women of Sea and Space

Designing Remote Presence Systems for Human Connection and Exploration, Summer 2020
Skydio, Inc.

Designing Remote Presence Systems for Human Connection and Exploration, Winter 2020
Stanford University, Robotics Seminar

Designing Remote Presence Systems for Human Connection and Exploration, Summer 2019
Munich School of Robotics (MSRM) at Technical University Munich (TUM), Germany

Breaking the Wall Between People and Machines, Fall 2018
Falling Walls Conferences, Berlin, Germany

Designing More Effective Human-Robot Systems, Summer 2018
Monterey Bay Aquarium Research Institute (MBARI)

Toward a More Human-Centered Future of Robotics, Summer 2018
Honda Research Institute, North America

Communicating Science, Fall 2017
UCSC Cognitive Science Student Association (CSSA)

Wrangling Robots: Inventing a More Human-Centered Future, Fall 2017
UCSC Social Sciences Division, Museum of Art and History (MAH)

On Being Re-Embodied as a Robot, Fall 2017
UC Berkeley, CITRIS People and Robots Initiative

What Is It Like To Be a Robot, Summer 2017
Palo Alto Research Center (PARC)

On Being Re-Embodied as a Robot, Summer 2017
UC Santa Cruz, Information Technology Services (ITS)

On Being Re-Embodied as a Robot, Spring 2017
UC Santa Cruz, Jack Baskin School of Engineering, Computer Engineering Graduates (CEG) Seminar

On Being Re-Embodied as a Robot, Spring 2017
Stanford University, Computer Science Department, CS 547: People, Computers, and Design (PCD)

What Is It Like To Be a Robot, Spring 2017
TEDx Palo Alto, Palo Alto, California

Robotics: Toward a More Human-Centered Future, Winter 2017
American Association for the Advancement of Science (AAAS), Boston, Massachusetts

A Human-Centered Robotic Future, Fall 2016
PopTech 2016: Culture Clash, Camden, Maine

People Interacting Thru and With Robots, Fall 2016
Bay Area Robotics Symposium (BARS), Stanford

Human-Centered Design Robots are All Around Us, Fall 2016
Palo Alto Research Center (PARC) Forum

Embodied Interactions with Robotic Agents, Winter 2016
University of California, San Diego, Department of Cognitive Science

What Is It Like To Be a Robot, Winter 2016
California College of Arts, San Francisco

Mixing People and Robots, Winter 2016
UC Berkeley, CITRIS Foundry & University Relations, Alumni Relations, and Center for People and Robots

What Is It Like To Be a Robot, Winter 2016
Fuji Xerox Palo Alto Lab (Fxpal)

Interacting Through Telepresence Robots, Winter 2016
Stanford University, Computer Science Department, CS 247: HCI Design Studio

Telepresence Robots: Using User Research to go from Prototype to Product, Winter 2016
Designer Fund's Bridge Program, San Francisco

Embodied Interactions with Robotic Agents, Winter 2016
University of California, Santa Cruz, Department of Psychology

Help Me Help You: Social Competence in Human-Robot Interactions, Winter 2016
NASA Ames Intelligent Robotics Group (IRG)

What's It Like To Be a Robot, Fall 2015
Toronto User Experience (TUX) Sanders Series

Human Machine System Integration, Summer 2015
NASA Workshop for Intelligent Systems in Aerospace

Towards Human Robot Symbiosis, Summer 2015
Cognitive Science 2015 conference symposium

Just a Few of the Many Flavors of Impact, Spring 2015
IEEE/RAS ICRA 2015 conference plenary

Telepresence Robotics for Supporting Remote Collaboration, Summer 2014
École Polytechnique Fédérale de Lausanne (EPFL)

Mixing People and Robots, Summer 2014
RSS 2014 Workshop on Women in Robotics

Mixing People and Robots, Spring 2014
Designer Fund's Bridge Program, San Francisco

Designing for the Seemingly Nonsensical Ways People See, Treat, and Use Robots, Spring 2014
University of Pennsylvania, GRASP Lab

Lessons from a Glimpse Into a Robotic Future, Winter 2013
GigaOM, RoadMap Conference: The Intersection of Design and Experience

Mixing Human and Robotic Agents, Spring 2013
UC Berkeley, Electrical Engineering & Computer Science, Swarm Lab

Mixing Human and Robotic Agents, Spring 2013
Nissan Research Center – Silicon Valley

Mixing Human and Robotic Agents, Spring 2013
Carnegie Mellon University, School of Computer Science, HCI Institute

Mixing Human and Robotic Agents, Spring 2013
Disney Research, Pittsburgh

HRI Pioneers Workshop Invited Speaker, Spring 2013
ACM/IEEE HRI 2013 conference workshop

HRI Workshop on Collaborative Manipulation Invited Speaker, Winter 2013
ACM/IEEE HRI 2013 conference workshop

Mixing Human and Robotic Agents, Winter 2013
University of Washington Bothell, Computing & Software Systems, CSS 480: Human-Computer Interaction

Mixing Human and Robotic Agents, Winter 2013
Disney Animation Studios

Mixing Human and Robotic Agents, Winter 2013
Stanford University, Communication Department, Comm 169/269: Computers and Interfaces

Mixing Human and Robotic Agents, Fall 2012
Sennheiser Research USA

Designing for In-the-Moment Interactions with Robotic Agents, Fall 2012
UC Berkeley, School of Information

Personal and Open Source Robotics Research & Development, Fall 2012
Creative Commons

Interacting With and Through Personal Robots, Summer 2012
Workshop on the Integration of Robotics and Smart Devices, National Unversity of Singapore

Embodied Virtuality: Making Sense of Agentic Objects, Spring 2012
Yale University, Department of Computer Science

Embodied Virtuality: Interacting With and Through Agentic Objects, Spring 2012
University of California, San Diego, Department of Cognitive Science

Embodied Virtuality: Interacting With and Through Agentic Objects, Spring 2012
University of Michigan, School of Information

Interacting With and Through Agentic Objects, Winter 2012
Washington University in St. Louis, Department of Computer Science & Engineering

Interacting With and Through Agentic Objects, Winter 2012
University of Wisconsin – Madison, Human-Computer Interaction Laboratory

Social, Cognitive, and Technical Challenges in Mobile Remote Presence, Fall 2011
NASA Ames Intelligent Robotics Group (IRG)

Personal Robotic Devices, Summer 2011
Kicker Studio, Device Design Day

Interacting With and Through Personal Robots, Winter 2011
University of Zurich, Informatics Department, People and Computing Lab

Interacting With and Through Personal Robots, Winter 2011
UC Berkeley, Berkeley Institute of Design (BiD)

Interacting With and Through Personal Robots, Fall 2010
Stanford University, Computer Science Department, CS 547: People, Computers, and Design (PCD)

Embodied Interactions With Personal Robots, Fall 2010
UC Merced, Glushko-Samuelson Foundation: Mind, Technology, and Society Lecture Series

Throwing Voices, Summer 2010
SETI Institute, Leonardo Art/Science Evening (LASER)

Expectation Setting for Personal Robots, Spring 2010
Texas A&M University, Parasol Seminar (AI and Robotics)

Voice User Interfaces, Spring 2009
California College of Arts, Design 602 Studio: Interaction and Scripting

Voices and Sources, Winter 2009
Stanford University, Communication Department, Communication 169/269: Computers and Interfaces

Voice Agents, Spring 2008
Stanford University, Communication Department, Communication 166/266: Virtual People

Auditory User Interfaces, Spring 2008
UC Berkeley, Industrial Engineering and Operations Research 170: Industrial Design and Human Factors

Ubiquitous Computing, Spring 2007
UC Berkeley Information School, i213: User Interface Design and Development

INVITED PANELS

Playground AGM Panel: Robotics, May 2024
Munich_i Panel: Sustainable AI, June 2023
NeurIPS Workshop Panel: Explainability/Predictability Robotics, December 2022
Moonshot International Symposium JST 2021 Panel: A society and lifestyle in which human beings can be free from the limitation of body, brain, space, and time, March 2021
ValleyML 2020 Panel: The Inspiration of Robotic Forms, November 2020
RSS 2020 Panel: Closing the Academia to Real-World Gap in Service Robotics, June 2020
TechCrunch 2018 Sessions on Robotics Panel: Making Robots Less Robotic, May 2018
ACM CHI 2018 Conference Panel: Human Robot Teaming, April 2018
PARC Forum on Making Robots Work to Help Us Work Remotely, October 2017
ACM Ubicomp 2017 Conference Panel: N2 Women, September 2017
UCSC Society of Women Engineers and Women in Science and Engineering (SWE & WISE), May 2017
Robo Madness 2016 Panel: AI and Human-Machine Interaction, June 2016
South by Southwest (SXSW) 2016 Panel: One Robot Doesn't Fit All, March 2016
CSCW 2016 Panel: Robots as Cooperative Partners… We Hope, February 2016
Life/Art/Science/Technology 2015 Panel: Homo Digitalis – Robots and People, October 2015
We Robot Conference 2013 Panel: Robotics Industry Round Table, April 2013
Bloomberg Businessweek Design Conference 2013 Panel: Imagination, January 2013
NASA Exploration Telerobotics Symposium Panel: Terrestrial Telerobotics, May 2012
ACM/IEEE HRI 2012 Conference Panel: Robot Telepresence, March 2012
ACM/IEEE HRI 2012 Workshop Invited Panel: HRI Pioneers March 2012

EXTERNAL PROFESSIONAL MEMBERSHIPS

Current:
ACM SIG CHI (Association for Computing Machinery, Special Interest Group, Computer Human Interaction)
IEEE RAS (Institute of Electrial and Electronics Engineers, Robotics and Automation Society)
IEEE Future Directions: Telepresence Committee (since 2022)

Past:
APA (American Psychological Association) Division 46: Society for Media Psychology & Technology
APS (Association for Psychological Science)
Cognitive Science Society
Human Factors and Ergonomics Society (HFES)

CONFERENCE ORGANIZER

ACM SIG CHI 2021-2022 panels co-chair
ACM Ubicomp 2017-2018 steering committee
ACM Ubicomp 2017 general co-chair
ACM/IEEE HRI 2015 program co-chair
Robotics and Law 2013-2014 organizing committee
ACM/IEEE HRI 2012-2016 steering committee
ACM/IEEE HRI 2012-2013 finance co-chair

EDITOR

Co-editor for a special issue in the Frontiers in Psychology journal 2020
Editorial board member for HFES/Sage Reviews in Human Factors & Ergonomics 2013
Co-editor for the inaugural issue for the Journal of Human Robot Interaction 2012

PROGRAM COMMITTEE MEMBER

IEEE RSS, Robotics Science and Systems 2014 and 2017 associate chair for HRI
Artificial Intelligence and Simulation of Behavior AISB 2014 program committee
Robotics and Law 2013-2014 program committee
ACM CHI 2012 program committee (subcommittee on understanding users)
ACM/IEEE HRI 2012-2014, 2019 program committee
ICSR 2012 program committee
IEEE Pervasive 2011 program committee
IEEE RSS, Robotics Science and Systems 2011 program committee
ACM CHI 2011 videos program committee
ACM UIST 2011 poster committee

WORKSHOP ORGANIZER

IEEE SMC 2023 conference workshop – Telepresence
(with Jan van Erp, Tiago Falk, and Adrian Stoica)
RSS 2021 conference workshop – Social robot navigation
(with Christoforos Mavrogiannis, Pete Trautman, and Sidd Srinivasa)
ACM SIG CHI 2019 conference workshop – New directions for the IoT: Automate, share, build, and care

(with Carolina Fuentes, Martin Porcheron, Joel Fischer, Nervo Verdezoto, Oren Zuckerman, Enrico Costanza, and Valeria Herskovic)
ACM/IEEE HRI 2016 conference workshop – Design skills for HRI
(with David Sirkin, Guy Hoffman, Wendy Ju, & Bilge Mutlu)
ACM SIG CHI 2015 conference workshop – Workshop on Everyday Telepresence
(with Irene Rae, Bilge Mutlu, Gary Olson, Judith Olson, & Gina Venolia)
RSS 2014 conference workshop – Workshop on women in robotics
(with Joelle Pineau, Andrea Thomaz, & Maren Bennewitz)
IEEE IROS 2012 conference workshop program committee - Human behavior understanding
(with Javier Ruiz-del-Solar, Cetin Mericli, & Pierre-Yves Oudeyer)
IEEE RO-MAN 2012 conference workshop program - Social robotic telepresence
(with Silvia Coradeschi, Gabriella Cortellessa, Annica Kristoffersson, & Amy Loutfi)
IEEE RSS 2011 conference workshop - Perspectives and contributions to robotics from the human sciences
(with Maja Matarić, Odest Chadwicke Jenkins, Holly Yanco, & Brian Scassellati)
ACM/IEEE HRI 2010 conference workshop - What do collaborations with the arts have to say about HRI?
(with Bill Smart & Annamaria Pileggi)
IEEE CVPR 2010 conference workshop - Computer vision for human robot interaction
(with Caroline Pantofaru, Rainer Stiefelhagen, & Gary Bradski)
NSF-JST workshop, HRI 2010 – Social remote presence robots
(with Cynthia Breazeal, Fumihide Tanaka, & Brian Scassellati)

REVIEWER

Journals:
ACM Transactions on Interactive Intelligent Systems, 2015
ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2020
APA Technology, Mind, and Society, 2018
CYE, Children, Youth, and Environments 2008
HCI, Human-Computer Interaction (Taylor & Francis) 2009, 2016
HFES Journal of Cognitive Engineering 2010
IEEE Transactions on Affective Computing 2011
IEEE Transactions on Autonomous Mental Development 2011
IEEE Intelligent Transportation Systems, 2020
IJHCS, International Journal of Human-Computer Studies (Elsevier) 2006, 2015
IJRR, International Journal of Robotics Research, 2016
IPSI, Institute for Integrated Publication and Information Systems 2005
JHRI, Journal of Human Robot Interaction 2012, 2015-2016
MIT Press Presence 2009, 2012

Conferences:
ACM CHI, Human Factors in Computing Systems 2004, 2006-22 (excellent reviewer 2017)
ACM CSCW, Computer Supported Cooperative Work 2008, 2010-12, 2017, 2019, 2021, 2023
ACM DIS, Designing Interactive Systems 2012, 2014
ACM/IEEE HRI, Human Robot Interaction 2006-2018, 2020-2022
ACM Mobile HCI 2018
ACM TEI, Tangible and Embedded Interaction 2009

ACM Ubicomp 2010, 2012, 2014
ACM UIST, User Interface Software and Technology 2010-14, 2021
HICSS, Hawaii International Conference on System Sciences 2007
IEEE ICRA, International Conference on Robotics and Automation 2009-13, 2018, 2021-2022
IEEE/RSJ IROS, International Conference on Intelligent Robotics and Systems 2011-2012, 2015-2016
IEEE Pervasive 2006, 2008-2009, 2012
IEEE RO-MAN 2010-2011, 2016
IEEE RSS, Robotics Science and Systems 2011-2012, 2015-2016

Workshops:
ACM/IEEE CTS Workshop on Collaborative Robots and Human Robot Interaction 2012
ACM/IEEE HRI Young Pioneers Workshop 2012-2013
International Workshop on Collaborative Robots and Human Robot Interaction 2011
RSS Pioneers Workshop 2018

SELECTED MEDIA / PRESS

Robots for the Rest of Us – Berreby, D., (2024, April 11). The best robot? One you don't notice.
Red Hat – Abramsky, B. (2020, June 16). How to start a robot revolution: Breaking the wheel.
Every Little Thing (Gimlet Media) – Heist, A. (2020, March 16). Is it weird to be nice to Alexa?
The Kamla Show – Bhatt, K. (2019, September 23). Women in STEM: Dr. Leila Takayama on Robotics & Cognitive Science
IEEE Spectrum – Wyrobek, K. (2017, October 31). The origin story of ROS the Linux of Robotics.
UCSC – McNulty, J. (2017, September 12). Love 'em or hate 'em, robots are here to stay so let's make them better, says psychology prof.
Bloomberg – Huet, E. (2017, May 17). The not-so-secret code that powers robots around the globe.
Xprize – Somerset, D. (2017, March 31). Robot uprising? Not anytime soon!
Xconomy – Tansey, B. (2016, June 29). The future of human-machine culture imagined at Robo Madness West.
How Stuff Works Now – Strickland, J. (2016, March 13). Hanging out with robot experts at SXSW Interactive.
IEEE Robotics & Automation – Haidegger, T. (2015, December). Excellence in R&A: Interview with the Recent Recipients of the RAS Early Career Award.
Re/code – Bracker, R. (2015, August 17). Google X Roboticist Speaks Out on Tech's Gender Crisis (video).
GigaOM – Darros, B. (2014, February 21). Say goodbye to Willow Garage.
Fast Company – Zax, D. (2014, February 8). Google Glass's unexpected lessons in product launching.
Smart Planet – Sherwood, C. (2013, May 20). Leila Takayama, Research Scientist on Human-Robot Interaction.
Technology Review Notebook – Takayama, L. (2013, April 23). Friendly Robots.
Huffington Post – Bosker, B. (2013, April 19). Robot-Human Interaction: Will We Bond with Bots in the Future?
Bloomberg TV – Soren, T. (2013, February 6). Have No Fear, a Robot That Won't Scare You Is Here!
Smithsonian Innovations – Rieland, R. (2012, December 27). Six Innovators to Watch in 2013.
Avant Garde Diaries – Welch, B. (2012, December 12). Robot Factory.
American Public Media, The Story – Gordon, D. (2012, October 30). A Robot Needs Hips.
CBS – Jana, R. (2012, October 27). To Innovate, Scientists and Engineers Find Inspiration in the Arts.
Technology Review – Knight, W. (2012, September 26). How You Could Help Your Future Robot Coworker.
PopTech – Wilder, O. (2012, September 26). Introducing the Science Fellows Class of 2012.
Technology Review – Simonite, T. (2012, September 25). Beam Yourself to Work in a Remote-Controlled Body.
CBS News – Clemens, P. (2012, July 29). New Robots Giving the Disabled Independence.
Financial Times – Clegg, A. (2012, June 29). Robots Take Lessons in Body Language.
National Public Radio: All Things Considered – Block, M. (2012, June 18). You Know You Want One: Personal Robots Are Coming, But Not Ready For You Yet.
Newsweek – Lyons, D. (2011, December 5). Studying Human-Robot Interactions.
Silicon Valley / San Jose Business Journal – Lynch, S. (2011, December 1). 40 Under 40: Leila Takayama.
Computerworld – Potter, V. (2011, August 8). Up Close and Personal With the Robot Petting Zoo.
Core77 – Core Jr. (2011, July 22). Device Design Day 2011: Six Questions for Leila Takayama.
Wired Magazine – Koerner, B. (2011, April). In Praise of Ugly Robots.
New Scientist – Knight, H. (2011, March 28). How a Robot Can Replace You at Work – and How It Can't.
KALW News – Short, S. (2011, February 15). Menlo Park Start-Up Looks to Bring Personal Robots to Market.
New Scientist – Biever, C. (2010, December 30). Robot, Robot, Wherefore Art Thou Robot?
Fast Company – Amit, G. (2009, October 1). In Defense of Slapping a Robot.
Wired.Com – Ganapati, P. (2009, July 22). Robo-Ethicists Want to Revamp Asimov's 3 Laws.
BBC – (2003, February 5). Tech Comes to the Rescue of Firefighters.