



# Nadir Weibel Ph.D.

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## Research Affiliations

**University of California San Diego, USA, Computer Science and Engineering Dept,**

-*Human-centered eXtended Intelligence (HXI) Research Lab*

-*The Design Lab*

-*Center for Wireless and Population Health Systems*

-*Contextual Robotics Institute.*

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## Research Interests

My work is at the intersection of computer science, human-centered design and the health sciences, and focuses on the design, development and evaluation of interactive pervasive sensing technology to support health and healthcare. I investigate, design and develop new tools, techniques and infrastructure that leverage the power of multimodal and pervasive sensing to track body and eye movements, speech, writing, as well as social interaction in the real world and online. This allows us to first capture, quantify and understand human behavior, and then support better interaction with information through design and development of human-centered ubiquitous computing technology aimed to improve health and health care.

Current work focuses on developing methods, designs and prototypes to evaluate the effectiveness of pervasive sensing and interactive multimodal physical-digital systems based on depth-cameras, eye-tracking, augmented and virtual reality, wearable and ubiquitous computing. I am engaged and actively publishing in the Human-Computer Interaction, Ubiquitous Computing and Pervasive Health communities.

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## Languages

**Italian:** *native*; **English:** *fluent*; **German:** *fluent*; **French:** *fluent*; **Spanish:** *basic*

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## Academic Qualifications

July 2009 **Ph.D. in Computer Science (Dr.Sc. ETH), ETH Zurich, Switzerland.**

Dissertation topic: A Publishing Infrastructure for Interactive Paper Documents: Supporting Interactions across the Paper-Digital Divide

September 2003 **M.Sc.in Computer Science (Dipl.Informatik-Ing.ETH), ETH Zurich, Switzerland.**

Major: Computer Science, Minor: Neuroinformatics

October 2001 – **Didactics Training ETH, ETH Zurich, Switzerland.**

February 2002 ETH Competence Center for Teaching

October 2001 **B.Sc.in Computer Science, ETH Zurich, Switzerland.**

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## Research and Teaching Experience

- July 2019 - **University of California San Diego, La Jolla CA, USA,**  
Department of Computer Science and Engineering.  
*Associate Professor in Residence*
- March 2022 - **University of California San Diego, La Jolla CA, USA,**  
The Design Lab.  
*Associate Faculty Director*
- January 2013 - **VA San Diego Healthcare System, San Diego CA, USA.**  
*Research Health Science Specialist*
- July 2013 - June 2017 **University of California San Diego, La Jolla CA, USA,**  
Department of Computer Science and Engineering.  
*Assistant Research Professor*
- July 2017 - June 2019 **University of California San Diego, La Jolla CA, USA,**  
Department of Computer Science and Engineering.  
*Associate Research Professor*
- October 2012 - June 2019 **University of California San Diego, La Jolla CA, USA.**  
*Lecturer in Computer Science and Cognitive Science*
- October 2012 - June 2013 **University of California San Diego, La Jolla CA, USA,**  
Department of Computer Science and Engineering.  
*Senior Researcher*
- October 2009 - September 2012 **University of California San Diego, La Jolla CA, USA,**  
Department of Cognitive Science.  
*Postdoctoral Researcher*
- September 2007 – September 2009 **DECS (Department of Education Culture and Sports), Canton of Ticino, Switzerland.**  
*Lecturer, Course and Exam Coordinator*
- September 2004 – August 2008 **ETH Zurich, Zurich, Switzerland,**  
Global Information Systems Research Group, Dept. of Computer Science.  
*Research and Teaching Assistant*
- September 2003 – August 2004 **Centro Professionale Trevano, Lugano, Switzerland.**  
*Lecturer*
- February 2001 – July 2003 **ETH Zurich, Zurich, Switzerland,**  
Dept. of Computer Science.  
*Tutorial Assistant*

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## Other Professional Experience

- March 2021 - **Homni Health Solutions, Inc, San Diego, USA.**  
*Co-Founder and Chief Scientific Officer*
- June 2020 - **Advanced Technology and Design Consulting, La Jolla, USA.**  
*Principal/Owner*

- April 2015 - **Aira Tech Corp, San Diego, USA.**  
**Scientific Advisory Board Member**
- September 2008 - **SunGard Financial Systems, Zurich, Switzerland.**  
 – August 2009 **Research Engineer and Solution Consultant**
- March 2004 – **DECS (Department of Education Culture and Sports), Canton of Ticino, Switzerland.**  
 September 2009 **Computer Networking Consultant**
- September 2003 - **Centro Professionale Trevano, Lugano, Switzerland.**  
 – August 2004 **Software and Information Architecture Consultant**

## Publications\*

### Books and Book Chapters

- [1] M. Tentori, N. Weibel, K. Van Laerhoven, G. Abowd, and F. Salim. *UbiComp-ISWC '20: Adjunct Proceedings of the 2020 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2020 ACM International Symposium on Wearable Computers*. Association for Computing Machinery, New York, NY, USA, 2020.
- [2] N. Minsky, V. Osmani, N. Weibel, K. Wac, and L. Li. *PervasiveHealth '18: Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare*. ACM, New York, NY, USA, 2018.
- [3] N. Weibel and J. Favela. *PervasiveHealth '16: Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*. ACM, Cancun, Mexico, 2016.
- [4] K. Zheng, D. Hanauer, Z. Agha, and N. Weibel. Computational Ethnography: Automated and Unobtrusive Means for Collecting Data in situ for Human-Computer Interaction Studies. In V. L. Patel, T. G. Kannampallil, and D. Kaufman, editors, *Cognitive Informatics in Health and Biomedicine: Human Computer Interaction in Healthcare*. Springer, 2015.
- [5] J. Kerr, N. Weibel, and C. Gurrin. *SenseCam '13: Proceedings of the 4th International SenseCam & Pervasive Imaging Conference*. ACM, New York, NY, USA, 2013.

### Peer-Reviewed Papers in Conference Proceedings

- [6] C. Chen, M. Yarmand, V. Singh, M. V. Sherer, J. D. Murphy, Y. Zhang, and N. Weibel. Exploring needs and design opportunities for virtual reality-based contour delineations of medical structures. In *Companion of the 2022 ACM SIGCHI Symposium on Engineering Interactive Computing Systems*, pages 19–25, 2022.
- [7] D. Gasques, W. Liu, and N. Weibel. The virtual-augmented reality simulator: Evaluating ost-hmd or calibration algorithms in vr. In *2022 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)*, pages 702–703. IEEE, 2022.
- [8] R. Casanova-Perez, C. Apodaca, E. Bascom, D. Mohanraj, C. Lane, D. Vidyarthi, E. Beneteau, J. Sabin, W. Pratt, N. Weibel, et al. Broken down by bias: Healthcare biases experienced by bipoc and lgbtq+ patients. In *AMIA Annual Symposium Proceedings*, volume 2021, page 275. American Medical Informatics Association, 2021.
- [9] C. Chen, J. G. Johnson, K. Charles, A. Lee, E. T. Lifset, M. Hogarth, A. A. Moore, E. Farcas, and N. Weibel. Understanding barriers and design opportunities to improve healthcare and qol for older adults through voice assistants. In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility*, pages 1–16, 2021.

- [10] C. Chen, K. Mrini, K. Charles, E. Lifset, M. Hogarth, A. Moore, N. Weibel, and E. Farcas. Toward a unified metadata schema for ecological momentary assessment with voice-first virtual assistants. In *CUI 2021-3rd Conference on Conversational User Interfaces*, pages 1–6, 2021.
- [11] D. Gasques, J. G. Johnson, T. Sharkey, Y. Feng, R. Wang, Z. R. Xu, E. Zavala, Y. Zhang, W. Xie, X. Zhang, et al. Artemis: A collaborative mixed-reality system for immersive surgical telementoring. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, pages 1–14, 2021.
- [12] J. G. Johnson, D. Gasques, T. Sharkey, E. Schmitz, and N. Weibel. Do you really need to know where “that” is? enhancing support for referencing in collaborative mixed reality environments. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, pages 1–14, 2021.
- [13] J. Sabin, N. Weibel, R. Casanova-Perez, C. Emmenegger, W. Pratt, C. Lane, C. Schairer, S. Rick, E. Beneteau, and A. Hartzler. Developing a healthcare equity tool: Combining technology and stakeholder engagement to uncover hidden bias in patient-provider interactions. In *2021 Annual Research Meeting*. AcademyHealth, 2021.
- [14] M. Yarmand, C. Chen, D. Gasques, J. D. Murphy, and N. Weibel. Facilitating remote design thinking workshops in healthcare: the case of contouring in radiation oncology. In *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems*, pages 1–5, 2021.
- [15] M. Yarmand, J. Solyst, S. Klemmer, and N. Weibel. “It Feels Like I am Talking into a Void”: Understanding Interaction Gaps in Synchronous Online Classrooms. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, pages 1–9, 2021.
- [16] V. Ramesh, A. Nguyen, L. Grega, K. Agrawal, B. C. Meyer, and N. Cauwenberghs, Gert anad Weibel. Assessing clinicians’ reliance on computational aids for acute stroke diagnosis. In *Proceedings of the 14th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth’20, 2020.
- [17] J. Johnson, E. Schmitz, V. Ramnath, and N. Weibel. Nurture-empower-support: A human-centered approach to understand and support icu families. In *Proceedings of the 13th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth’19, pages 119–128, New York, NY, USA, 2019. ACM.
- [18] J. G. Johnson, D. G. Rodrigues, M. Gubbala, and N. Weibel. HoloCPR: Designing and Evaluating a Mixed Reality Interface for Time-Critical Emergencies. In *Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth ’18, pages 67–76, New York, NY, USA, 2018. ACM. event-place: New York, NY, USA.
- [19] V. Ramesh, K. Agrawal, B. Meyer, G. Cauwenberghs, and N. Weibel. Stroke-Associated Hemiparesis Detection Using Body Joints and Support Vector Machines. In *Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth ’18, pages 55–58, New York, NY, USA, 2018. ACM.
- [20] Y. Vaizman, K. Ellis, G. Lanckriet, and N. Weibel. ExtraSensory App: Data Collection In-the-Wild with Rich User Interface to Self-Report Behavior. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, CHI ’18, pages 554:1–554:12, New York, NY, USA, 2018. ACM.
- [21] N. Weibel, P. Desai, L. Saul, A. Gupta, and S. Little. HIV Risk on Twitter: the Ethical Dimension of Social Media Evidence-based Prevention for Vulnerable Populations. In *Proceedings of HICSS-50, Hawaii International Conference on System Sciences*, Big Island, HI, USA, January 2017.
- [22] B. Balaji, J. Koh, N. Weibel, and Y. Agarwal. Genie: A Longitudinal Study Comparing Physical and Software Thermostats in Office Buildings. In *Proceedings of the 2016 ACM International*

- Joint Conference on Pervasive and Ubiquitous Computing*, UbiComp '16, pages 1200–1211, New York, NY, USA, 2016. ACM.
- [23] F. L. Cibrán, N. Weibel, and M. Tentori. Collective Use of a Fabric-based Interactive Surface to Support Early Development in Toddler Classrooms. In *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing*, UbiComp '16, pages 328–339, New York, NY, USA, 2016. ACM.
  - [24] M. Hussain, J. Dewey, and N. Weibel. Mitigating Medical Alarm Fatigue with Cognitive Heuristics. In *Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '16, pages 178–185, ICST, Brussels, Belgium, Belgium, 2016. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering).
  - [25] N. Weibel, S.-O. Hwang, S. Rick, E. Sayyari, D. Lenzen, and J. Hollan. Hands That Speak: An Integrated Approach to Studying Complex Human Communicative Body Movements. In *Proceedings of the 2016 49th Hawaii International Conference on System Sciences (HICSS)*, HICSS '16, pages 610–619, Washington, DC, USA, 2016. IEEE Computer Society.
  - [26] N. Thangarajan, N. Green, A. Gupta, S. Little, and N. Weibel. Analyzing Social Media to Characterize Local HIV At-risk Populations. In *Proceedings of the Conference on Wireless Health*, WH '15, pages 11:1–11:8, New York, NY, USA, 2015. ACM.
  - [27] D. S. Kusunoki, A. Sarcevic, N. Weibel, I. Marsic, Z. Zhang, G. Tuveson, and R. S. Burd. Balancing Design Tensions: Iterative Display Design to Support Ad Hoc and Multidisciplinary Medical Teamwork. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, CHI '14, pages 3777–3786, New York, NY, USA, 2014. ACM.
  - [28] E. Tanuwidjaja, D. Huynh, K. Koa, C. Nguyen, C. Shao, P. Torbett, C. Emmenegger, and N. Weibel. Chroma: A Wearable Augmented-reality Solution for Color Blindness. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing*, UbiComp '14, pages 799–810, New York, NY, USA, 2014. ACM.
  - [29] A. Fouse, N. Weibel, C. Johnson, and J. D. Hollan. Reifying Social Movement Trajectories. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, CHI '13, pages 2945–2948, New York, NY, USA, 2013. ACM.
  - [30] J. Lyons, R. Dixit, C. Emmenegger, L. H. Hill, N. Weibel, and J. D. Hollan. Factors Affecting Physician-Patient Communication in the Medical Exam Room. In *Proceedings of HCI International 2013, 15th International Conference on Human-Computer Interaction*, pages 187–191, Las Vegas, NV, USA, 2013.
  - [31] A. M. Piper, N. Weibel, and J. Hollan. Audio-enhanced Paper Photos: Encouraging Social Interaction at Age 105. In *Proceedings of the 2013 Conference on Computer Supported Cooperative Work*, CSCW '13, pages 215–224, New York, NY, USA, 2013. ACM.
  - [32] N. Weibel, C. Emmenegger, J. Lyons, R. Dixit, L. L. Hill, and J. D. Hollan. Interpreter-mediated Physician-patient Communication: Opportunities for Multimodal Healthcare Interfaces. In *Proceedings of the 7th International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '13, pages 113–120, ICST, Brussels, Belgium, Belgium, 2013. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering).
  - [33] M. Hong, A. M. Piper, N. Weibel, S. Olberding, and J. Hollan. Microanalysis of Active Reading Behaviors to Inform Design of Interactive Desktop Workspaces. In *Proc. ITS 2012, ACM Interactive Tabletops and Surfaces Conference*, pages 215–224, November 2012.
  - [34] A. Sarcevic, N. Weibel, J. D. Hollan, and R. Burd. TraumaPen: A Paper-Digital Interface for Information Capture and Display in Time-Critical Medical Work. In *Proc. Pervasive Health 2012, International Conference on Pervasive Computing Technologies for Healthcare*, pages 17–24, May 2012.

- [35] A. M. Piper, N. Weibel, and J. Hollan. TAP & PLAY: An End-user Toolkit for Authoring Interactive Pen and Paper Language Activities. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, CHI '12, pages 149–158, New York, NY, USA, 2012. ACM.
- [36] A. Satyanarayan, N. Weibel, and J. Hollan. Using Overlays to Support Collaborative Interaction with Display Walls. In *Proceedings of the 2012 ACM International Conference on Intelligent User Interfaces*, IUI '12, pages 105–108, New York, NY, USA, 2012. ACM.
- [37] N. Weibel, A. Fouse, C. Emmenegger, W. Friedman, E. Hutchins, and J. Hollan. Digital Pen and Paper Practices in Observational Research. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, CHI '12, pages 1331–1340, New York, NY, USA, 2012. ACM.
- [38] N. Weibel, A. Fouse, C. Emmenegger, S. Kimmich, and E. Hutchins. Let's Look at the Cockpit: Exploring Mobile Eye-tracking for Observational Research on the Flight Deck. In *Proceedings of the Symposium on Eye Tracking Research and Applications*, ETRA '12, pages 107–114, New York, NY, USA, 2012. ACM.
- [39] L. G. Cowan, N. Weibel, L. R. Pina, J. D. Hollan, and W. G. Griswold. Ubiquitous Sketching for Social Media. In *Proceedings of the 13th International Conference on Human Computer Interaction with Mobile Devices and Services*, MobileHCI '11, pages 395–404, New York, NY, USA, 2011. ACM.
- [40] N. Weibel, A. Fouse, E. Hutchins, and J. D. Hollan. Supporting an Integrated Paper-digital Workflow for Observational Research. In *Proceedings of the 16th International Conference on Intelligent User Interfaces*, IUI '11, pages 257–266, New York, NY, USA, 2011. ACM.
- [41] N. Weibel, B. Signer, M. C. Norrie, H. Hofstetter, H.-C. Jetter, and H. Reiterer. PaperSketch: A Paper-digital Collaborative Remote Sketching Tool. In *Proceedings of the 16th International Conference on Intelligent User Interfaces*, IUI '11, pages 155–164, New York, NY, USA, 2011. ACM.
- [42] A. M. Piper, N. Weibel, and J. D. Hollan. Introducing Multimodal Paper-digital Interfaces for Speech-language Therapy. In *Proceedings of the 12th International ACM SIGACCESS Conference on Computers and Accessibility*, ASSETS '10, pages 203–210, New York, NY, USA, 2010. ACM.
- [43] C. Decurtins, M. C. Norrie, E. Reuss, and N. Weibel. AwareNews - A Context-Aware Peripheral News and Awareness Display. In *Proc. IE 2008, 4th International Conference on Intelligent Environments*, pages 1 –8, Seattle, WA, USA, July 2008.
- [44] M. C. Norrie, B. Signer, and N. Weibel. Interactive Paper As a Reading Medium in Digital Libraries. In *Proceedings of the 12th European Conference on Research and Advanced Technology for Digital Libraries*, ECDL '08, pages 232–243, Berlin, Heidelberg, 2008. Springer-Verlag.
- [45] M. Grossniklaus, M. C. Norrie, B. Signer, and N. Weibel. Producing Interactive Paper Documents Based on Multi-Channel Content Publishing. In *Proceedings of the Third International Conference on Automated Production of Cross Media Content for Multi-Channel Distribution*, AXMEDIS '07, pages 89–96, Washington, DC, USA, 2007. IEEE Computer Society.
- [46] N. Weibel, M. C. Norrie, and B. Signer. A Model for Mapping Between Printed and Digital Document Instances. In *Proceedings of the 2007 ACM Symposium on Document Engineering*, DocEng '07, pages 19–28, New York, NY, USA, 2007. ACM.
- [47] M. Grossniklaus, M. C. Norrie, B. Signer, and N. Weibel. Putting Location-based Services on the Map. In *Proceedings of the 6th International Conference on Web and Wireless Geographical Information Systems*, W2GIS'06, pages 1–11, Berlin, Heidelberg, 2006. Springer-Verlag.
- [48] M. C. Norrie, B. Signer, and N. Weibel. Print-n-link: Weaving the Paper Web. In *Proceedings of the 2006 ACM Symposium on Document Engineering*, DocEng '06, pages 34–43, New York, NY, USA, 2006. ACM.



- [49] A. Lombardoni, M. C. Norrie, N. Weibel, A. Vogelsang, and M. Althaus. A Systematic Approach to the Development of E-Commerce Sites for Mass Customization. In *Proc. IEEE '05, IEEE International Conference on e-Technology, e-Commerce and e-Service*, pages 246–249, Hong Kong, China, March 2005.

### Journal Articles

- [50] S. J. Mansour-Assi, N. M. Golaszewski, V. L. Costello, D. Wing, H. Persinger, A. Coleman, L. Lytle, B. A. Larsen, S. Jain, N. Weibel, et al. Social mobile approaches to reducing weight (smart) 2.0: protocol of a randomized controlled trial among young adults in university settings. *Trials*, 23(1):1–14, 2022.
- [51] J. Harlow, N. Weibel, R. Al Kotob, V. Chan, C. Bloss, R. Linares-Orozco, M. Takemoto, and C. Nebeker. Using participatory design to inform the connected and open research ethics (core) commons. *Science and engineering ethics*, 26(1):183–203, 2020.
- [52] W. Xie, Y. Liang, J. Johnson, A. Mower, S. Burns, C. Chelini, P. D. Alessandro, N. Weibel, and J. P. Schulze. Interactive multi-user 3d visual analytics in augmented reality. *arXiv preprint arXiv:2002.05305*, 2020.
- [53] J. Harlow, N. Weibel, R. A. Kotob, V. Chan, C. Bloss, R. Linares-Orozco, M. Takemoto, and C. Nebeker. Using Participatory Design to Inform the Connected and Open Research Ethics (CORE) Commons. *Science and Engineering Ethics*, 2019.
- [54] M. Hoenigl, S. J. Little, D. Grelotti, B. Skaathun, G. A. Wagner, N. Weibel, J. K. Stockman, and D. M. Smith. Grindr users take more risks, but are more open to human immunodeficiency virus (hiv) pre-exposure prophylaxis: Could this dating app provide a platform for hiv prevention outreach? *Clinical Infectious Diseases*, 2019.
- [55] A. Sarvghad, B. Saket, A. Endert, and N. Weibel. Embedded Merge & Split: Visual Adjustment of Data Grouping. *IEEE transactions on visualization and computer graphics*, August 2018.
- [56] R. L. Street, L. Liu, N. J. Farber, Y. Chen, A. Calvitti, N. Weibel, M. T. Gabuzda, K. Bell, B. Gray, S. Rick, S. Ashfaq, and Z. Agha. Keystrokes, Mouse Clicks, and Gazing at the Computer: How Physician Interaction with the EHR Affects Patient Participation. *Journal of General Internal Medicine*, 33(4):423–428, April 2018.
- [57] S. Dunseath, N. Weibel, C. S. Bloss, and C. Nebeker. NIH support of mobile, imaging, pervasive sensing, social media and location tracking (MISST) research: laying the foundation to examine research ethics in the digital age. *npj Digital Medicine*, 1(1):20171, January 2018.
- [58] Y. Vaizman, N. Weibel, and G. Lanckriet. Context Recognition In-the-Wild: Unified Model for Multi-Modal Sensors and Multi-Label Classification. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.*, 1(4):168:1–168:22, January 2018.
- [59] C. Nebeker, J. Harlow, R. Espinoza Giacinto, R. Orozco-Linares, C. S. Bloss, and N. Weibel. Ethical and regulatory challenges of research using pervasive sensing and other emerging technologies: IRB perspectives. *AJOB empirical bioethics*, 8(4):266–276, December 2017.
- [60] J. Calderon, G. X. Ayala, J. P. Elder, G. E. Belch, I. A. Castro, N. Weibel, and J. Pickrel. What Happens When Parents and Children Go Grocery Shopping? An Observational Study of Latino Dyads in Southern California, USA. *Health Education & Behavior: The Official Publication of the Society for Public Health Education*, 44(1):5–12, 2017.
- [61] A. Calvitti, H. Hochheiser, S. Ashfaq, K. Bell, Y. Chen, R. El Kareh, M. T. Gabuzda, L. Liu, S. Mortensen, B. Pandey, S. Rick, R. L. Street, N. Weibel, C. Weir, and Z. Agha. Physician activity during outpatient visits and subjective workload. *Journal of Biomedical Informatics*, 69:135–149, 2017.

- [62] M. Hussain, J. Dewey, and N. Weibel. Reducing alarm fatigue: exploring decision structures, risks, and design. *EAI Endorsed Transactions on Pervasive Health and Technology*, 17(10), 2017.
- [63] G. Merchant, N. Weibel, L. Pina, W. G. Griswold, J. H. Fowler, G. X. Ayala, L. C. Gallo, J. Hollan, and K. Patrick. Face-to-Face and Online Networks: College Students' Experiences in a Weight-Loss Trial. *Journal of Health Communication*, 22(1):75–83, 2017.
- [64] C. Bloss, C. Nebeker, M. Bietz, D. Bae, B. Bigby, M. Devereaux, J. Fowler, A. Waldo, N. Weibel, K. Patrick, S. Klemmer, and L. Melichar. Reimagining Human Research Protections for 21st Century Science. *Journal of Medical Internet Research*, 18(12):e329, 2016.
- [65] A. Chaillon, M. Hoenigl, S. R. Mehta, N. Weibel, S. J. Little, and D. M. Smith. A practical online tool to estimate antiretroviral coverage for HIV infected and susceptible populations needed to reduce local HIV epidemics. *Scientific Reports*, 6:28707, 2016.
- [66] M. Hoenigl, N. Weibel, S. R. Mehta, C. M. Anderson, J. Jenks, N. Green, S. Gianella, D. M. Smith, and S. J. Little. Development and validation of the San Diego Early Test Score to predict acute and early HIV infection risk in men who have sex with men. *Clinical Infectious Diseases: An Official Publication of the Infectious Diseases Society of America*, 61(3):468–475, August 2015.
- [67] E. Grenader, D. Gasques Rodrigues, F. Nos, and N. Weibel. The VideoMob Interactive Art Installation Connecting Strangers Through Inclusive Digital Crowds. *ACM Trans. Interact. Intell. Syst.*, 5(2):7:1–7:31, July 2015.
- [68] N. Weibel, S. Rick, C. Emmenegger, S. Ashfaq, A. Calvitti, and Z. Agha. LAB-IN-A-BOX: Semi-automatic Tracking of Activity in the Medical Office. *Personal Ubiquitous Comput.*, 19(2):317–334, February 2015.
- [69] A. Rule, S. Rick, M. Chiu, P. Rios, S. Ashfaq, A. Calvitti, W. Chan, N. Weibel, and Z. Agha. Validating free-text order entry for a note-centric EHR. *AMIA ... Annual Symposium proceedings. AMIA Symposium*, 2015:1103–1110, 2015.
- [70] A. Calvitti, H. Hochheiser, N. Weibel, L. Liu, K. Zheng, C. Weir, S. Ashfaq, S. Rick, Z. Agha, and B. Gray. Can eye tracking and EHR mouse activity tell us when clinicians are overloaded? *Human Factors Quarterly, Veteran Health Administration*, September 2014.
- [71] B. Signer, M. C. Norrie, N. Weibel, and A. Ispas. Advanced Authoring of Paper-digital Systems. *Multimedia Tools Appl.*, 70(2):1309–1332, May 2014.
- [72] G. Merchant, N. Weibel, K. Patrick, J. H. Fowler, G. J. Norman, A. Gupta, C. Servetas, K. Calfas, K. Raste, and L. Pina. Click "like" to change your behavior: a mixed methods study of college students' exposure to and engagement with Facebook content designed for weight loss. *Journal of medical Internet research*, 16(6), 2014.
- [73] A. M. Piper, N. Weibel, and J. D. Hollan. Designing audio-enhanced paper photos for older adult emotional wellbeing in communication therapy. *International Journal of Human-Computer Studies*, 72(8-9):629–639, 2014.
- [74] E. Hutchins, N. Weibel, C. Emmenegger, and A. Fouse. An Integrative Approach to Understanding Flight Crew Activity. *Journal of Cognitive Engineering and Decision Making*, 7(4):352–376, July 2013.
- [75] L. G. Cowan, N. Weibel, W. G. Griswold, L. R. Pina, and J. D. Hollan. Projector Phone Use: Practices and Social Implications. *Personal Ubiquitous Comput.*, 16(1):53–63, January 2012.
- [76] A. M. Piper, N. Weibel, and J. D. Hollan. Write-N-Speak: Authoring Multimodal Digital-Paper Materials for Speech-Language Therapy. *ACM Trans. Access. Comput.*, 4(1):2:1–2:20, November 2011.



- [77] L. Gabutti, F. Nobile, V. Forni, F. Rigamonti, N. Weibel, and M. Burnier. Development of an erythropoietin prescription simulator to improve abilities for the prescription of erythropoietin stimulating agents: is it feasible? *BMC nephrology*, 12:11, February 2011.
- [78] M. C. Norrie, B. Signer, M. Grossniklaus, R. Belotti, C. Decurtins, and N. Weibel. Context-aware Platform for Mobile Data Management. *Wirel. Netw.*, 13(6):855–870, December 2007.

### Peer-Reviewed Abstracts, Posters and Demos

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### Workshop Papers

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\*Primary publication's mean for computing research are conference proceedings. Many conferences organized by ACM, the Association for Computer Machinery (e.g. CHI, Ubicomp, UIST, CSCW, IUI, ETRA) are considered top publication venues for human-computer interaction.  
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<sup>1</sup>Authors listed in alphabetical order.

## Press/News Coverage

- Nov 01, 2021 **Making Voice Assistants Accessible for Older Patients,**  
*UC San Diego News*, <https://ucsdnews.ucsd.edu/pressrelease/making-voice-assistants-accessible-for-older-patients>.
- June 02, 2020 **A Cross-Border Approach to Tackling COVID-19 ,**  
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- May 11, 2020 **UC San Diego Team Delivers Protective Equipment to Hospitals in Baja California,**  
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- Dec. 2, 2013 **Adventures in Ubiquitous Computing**,  
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## Patents

- February 10, 2022 **Systems and methods for moldable and castable personal protective face masks**, T. Sharkey, N. Weibel, US Patent App. 17/394,229, 2022.
- February 5, 2021 **Diagnosing and Tracking Stroke with Sensor-based Assessment**, V. Ramesh, N. Weibel, G. Cauwenberghs, K. Agrawal, B.C. Meyer, US Provisional Patent 63/146,450, Full Patent filed Feb. 5, 2022.

- February 25, 2021 **Identifying Weakness in Sitting Stroke Patients by Capturing Neurologist Acumen with Machine Learning**, V. Ramesh, N. Weibel, G. Cauwenberghs, K. Agrawal, B.C. Meyer, US Provisional Patent 63/153,902, Full Patent filed Feb. 25, 2022.
- June 18, 2020 **Enhanced ultrasound systems and methods**, P. Suresh, D. Gasques, N. Weibel, Anderson E., US Patent App. 16/643,505, 2020.

## Research Grants

### Independent Research Funding

- July 2022 **University of California, Office of the President**, *Designing Just Futures: An Interdisciplinary Cluster Hire Advancing Design, Social Justice, and Indigenous, Black and Migrant Futures*, \$499,920.  
**Principal Investigator**
- June 2022 **Adobe Inc.**, *Gift Grant to support research on Human-centered eXtended Intelligence*, \$20,000.  
**Principal Investigator**
- June 2022 **Google Inc.**, *Gift Grant to support QT-BIPOC Research*, \$2,500.  
**Principal Investigator**
- April 2022 – March 2027 **NIH P01 AI169609**, *Leaving, Coming, and Staying HIV Obligate Microenvironments (HOME)*, \$8,000,000.  
**Co-Investigator, Core Director (Admin and Data Core – \$1,600,000)**
- Sept 2021 – Aug 2024 **NSF 2124975**, *Ethical and Responsible Research in the Design of Sociotechnical Systems*, \$400,000.  
**Co-Investigator**
- Jan 2021 – Dec 2025 **HRSA 20-078**, *Community Informed Molecular Epidemiology for Treatment and Care*, \$2,500,000.  
**Co-Investigator**
- Sept 2020 – Sept 2022 **Univ. of Paraiba (Brazil)**, *MedTech Horizon - Rethinking the Technological Horizons of Medical Device Technologies*, \$190,000.  
**Principal Investigator**
- July 2020 – Sept 2022 **Intuitive Surgical**, *Fundamental Concepts for Effective eXtended Reality in the Operating Room*, \$165,000.  
**Principal Investigator**
- Sept 2019 – Dec 2022 **NSF IIP 2037916**, *NSF I-CORPS Team: UbiStroke, AI-Based Clinical Decision Support for Acute Stroke*, \$50,000.  
**Principal Investigator**
- Sept 2019 – May 2023 **NIH/NLM**, *UnBIASED: Understanding Biased patient-provider Interaction And Supporting Enhanced Discourse*, \$3,126,000.  
**Principal Investigator (UCSD)**
- Sept 2020 – August 2021 **Office of Naval Research / SOLUTE Inc.**, *ARTEMIS++: Beyond Augmented Reality Technology to Enable Remote Surgery*, \$300,000.  
**Principal Investigator**

Nadir Weibel – University of California San Diego – La Jolla CA, 92093-0404, USA

☎ +1 (858) 534-8637 • ✉ weibel@ucsd.edu • 🌐 <http://weibel.ucsd.edu>

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- Sept 2019 – May 2023 **NIH/NLM**, *UnBIASED: Understanding Biased patient-provider Interaction And Supporting Enhanced Discourse*, \$3,126,000.  
**Principal Investigator (UCSD)**
- Oct 2019 – June 2021 **NIH/NIA**, *VOLI: Voice Assistant For Quality Of Life And Healthcare Improvement In Aging Populations*, \$600,000.  
**Co-Investigator**, (Farcas PI)
- July 2019 – June 2024 **NIH/NIAID**, *iContour: Interactive contouring simulation to improve outcomes of cancer patients treated with radiation therapy*, \$1,985,000.  
**Co-Investigator**, (Murphy, Gillespie, PIs)
- June 2018 – May 2019 **IBM**, *Project BlueSky: Monitoring Parkinson's Disease With Sensors and Analytics*, \$150,000.  
**Principal Investigator**
- Aug 2017 – July 2022 **NIH/NIAID**, *PIRC: Primary Infection Research Consortium*, \$16,500,000.  
**Co-Investigator, Director of Technology**, (Little PI)
- June 2018 – May 2023 **NIH/NHLBI**, *Smart 2.0: Social Mobile Approaches to Reduce weight*, \$3,700,000.  
**Co-Investigator**, (Godino PI)
- April 2018 – May 2021 **CHRP**, *Californians Talk HIV Using Social Media to Get Steps Ahead*, \$1,800,000.  
**Co-Principal Investigator**, (Ayers PI)
- Aug 2017 – July 2022 **NIH/NIAID**, *R3: Revealing Reservoir During Rebound*, \$7,750,000.  
**Program-Director (Data and Visualization Core)**, (Smith PI)
- Sept 2016 – Aug 2019 **NSF**, *SL-CN: Learning to Move and Moving to Learn*, \$750,000.  
**Co-Investigator**, (Chucoskie PI)
- Janu 2017 – Sept 2018 **UCSD – Frontiers of Innovation Scholars Program (FISP)**, *Stroke-Kinect: A Sensor-Based Approach Towards Creating a Multimodal Stroke Signature*, \$50,000.  
**Principal Investigator**
- Jan 2017 – Dec 2017 **UCSD Chancellor's Interdisciplinary Collaboratories**, *Designing CORE: a Connected and Open Research Ethics framework*, \$62,500.  
**Principal Investigator** (Nebeker, Bloss Co-PIs)
- April 2016 – March 2018 **NIH - NICHD**, *In-store and parent-child influences on food shopping*, \$428,787.  
**UCSD Principal Investigator** (Castro, Ayala, SDSU Co-PIs)
- April 2016 – Oct 2017 **NIH – NIDA, TMARC Developmental**, *Characterizing the Relationship of Methamphetamine Use and Neurocognitive Impairment in HIV at-risk Online Networks*, \$27,000.  
**Principal Investigator**
- Jan 2016 – Dec 2016 **UCSD Chancellor's Interdisciplinary Collaboratories**, *Designing CORE: a Connected and Open Research Ethics framework*, \$62,500.  
**Principal Investigator** (Nebeker, Bloss Co-PIs)
- Nov 2015 – Oct 2017 **Robert Wood Johnson Foundation**, *Designing, building, and testing a Web-based prototype to foster the ethical design and review of health research*, \$350,000.  
**Co-Investigator; Lead Technology Development and Design** (Nebeker PI)
- July 2015 **Moxie Foundation**, *Assistive Technology and Ubiquitous Computing Research*, \$300,000.  
**Principal Investigator**

- June 2015 – Nov 2016 **US NSF 1542255**, *I-Corps Teams: Cocoon Cam, a Wearless Smart Baby Monitor*, \$50,000.  
**Principal Investigator**
- April 2015 – March 2020 **NIH - NCI**, *Effect of Packaging on Smoking Perception and Behavior: a Randomized Control Trial*, \$2,500,000.  
**Co-Investigator (Strong PI)**
- April 2015 **Lawrence Bock**, *Adaptive Context-Aware Assistive Technology for People with Low-Vision*, \$60,000.  
**Principal Investigator**
- Jan 2015 – Sept 2016 **UCSD – Frontiers of Innovation Scholars Program (FISP)**, *Detecting HIV at-risk MSM in San Diego through Social Networks*, \$25,000.  
**Principal Investigator**
- Jan 2015 **ION Bank Foundation**, *Travel Grant for field research on Locked-in Syndrome*, \$10,000.  
**Principal Investigator**
- Jan 2015 – March 2017 **NIH – NIAID CFAR Developmental**, *PIRC-NET: Analyzing Social Media to characterize HIV at-risk populations among MSM in San Diego*, \$50,000.  
**Principal Investigator**
- Sept 2014 – Jan 2015 **Moxie Foundation**, *Support for educational and research efforts around Locked-in Syndrome*, \$42,500.  
**Principal Investigator**
- Jan 2015 – Sept 2018 **VA Merit**, *Design and Evaluation of User Centered Electronic Health Records (DEUCE)*, \$1,100,000.  
**Co-Investigator (Ohno-Machado PI)**
- Aug 2014 – July 2016 **NIH – NIMH R25**, *Interdisciplinary Research Fellowship in NeuroAIDS (IRFN)*.  
**Fellow**
- Oct 2012 – Sept 2017 **NIH – NIDA Avant-Garde**, *Molecular epidemiology for HIV prevention for drug users and other risk groups*, \$2,500,000.  
**Co-Investigator (Smith PI)**
- Oct 2012 – Sept 2017 **AHRQ – R01**, *Quantifying Electronic Medical Record Usability to Improve Clinical Workflow (QUICK)*, \$2,500,000.  
**Co-Investigator (Agha PI)**
- Sept 2012 – Aug 2014 **NIH – NLM R21**, *Introducing Digital Pen and Wall Displays for Improving Resuscitation Team Performance*, \$275,000.  
**Co-Investigator (Burd, PI)**
- Aug 2012 – Dec 2012 **Swiss NSF PA00P2\_142066**, *Towards a Multimodal Paper-Digital Infrastructure for Content Sharing and Collaboration for Health Care, Education and Social Interaction*, \$35,000.  
**Principal Investigator**
- Sept 2011 – Aug 2012 **Swiss NSF PA00P2\_136434**, *A Multimodal Paper-Digital Infrastructure For Health Care Applications*, \$50,600.  
**Principal Investigator**

## PhD and Postdoctoral Funding

- January 2011 – December 2012 **UCSD – Boeing Project Agreement 2011-012 / Boeing Project Agreement 2012**, *Flight Crew Performance Data Collection and Analysis Tool*.  
**Postdoctoral Researcher** (Hutchins PI)
- October 2009 – August 2011 **US NSF IIS-0729013**, *A Multiscale Framework for Analyzing Activity Dynamics*.  
**Postdoctoral Researcher** (Hollan and Hutchins Co-PIs)
- September 2007 – August 2008 **Swiss NSF 200020-117808**, *General Model for Tracking User Actions on Documents*.  
**Ph.D. student** (Norrie PI)
- September 2004 – August 2007 **Swiss NSF 200021-103432**, *Inforama: Promoting Community Awareness through Ambient Information*.  
**Ph.D. student** (Norrie PI)
- April 2005 – March 2008 **European Research Commission, EU STREP FP6-516895**, *PaperWorks: Interweaving Paper and Digital Documents*, Partners: King's College London, Acreo AB, Arjowiggins SAS, ETH Zurich, Malmö University, Brunel University, Anoto AB, Pearson Education.  
**Ph.D. student** (Norrie PI)

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## Honors and Awards

- May 2018 **CHI 2018, ACM International Conference on Human Factors in Computing Systems**, *Honourable Mention Award*.
- August 2017 **NIH/NIMH**, *Interdisciplinary Research Award in NeuroAIDS*.
- June 2016 **UCSD CSE Department**, *Masters Admission Committee Exemplary Service Award*.
- May 2016 **Pervasive Health 2016, International Conference on Pervasive Computing Technologies for Healthcare**, *Best Paper Award*.
- May 2016 **European Alliance for Innovation (EAI)**, *Certificate of Appreciation for Outstanding and Lasting Contribution to Pervasive Health*.
- June 2015 **National Science Foundation (NSF)**, *Innovation Corps Program Certification*.
- April 2015 **UCSD Jacobs School of Engineering**, *Research Expo 2015*, *Best Computer Science and Engineering Poster*.
- September 2014 **UbiComp 2014, ACM International Joint Conference on Pervasive and Ubiquitous Computing**, *Best Paper Nominee Award*.
- July 2014 **HFES, Human Factors and Ergonomics Society**, *2014 Best JCEDM Article Award*.
- July 2014 **NIH, National Institute of Mental Health (NIMH)**, *Interdisciplinary Research Fellowship in NeuroAIDS*.
- February 2013 **University of California San Diego**, *Professional Development Award*.
- June 2012 **Swiss National Science Foundation (SNF)**, *Fellowship for advanced researchers*.
- June 2011 **Swiss National Science Foundation (SNF)**, *Fellowship for advanced researchers*.

October 2010 **ASSETS 2010, ACM SIGACCESS Conference on Computers and Accessibility.**  
Best Student Paper Award (Anne Marie Piper)

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## Professional Activities

### Steering Committees, Advisory and Editorial Boards

- 2021 – **UbiComp**, *ACM International Conference on Pervasive and Ubiquitous Computing*,  
<https://ubicomp.org/sc>.  
**Steering Committee Member**
- 2016 – **ACM IMWUT**, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*.  
**Associate Editor**
- 2016 – 2020 **PHaT**, *EAI Transactions on Pervasive Health and Technology*.  
**Associate Editor**
- 2013 **Pervasive Health: State-of-the-Art and Beyond**, *Human-Computer Interaction Series*,  
Springer, 2013.  
**Advisory Board Member**

### Conferences Organization

- 2020 **UbiComp 2020**, *ACM Int. Joint Conference on Pervasive and Ubiquitous Computing*.  
**General Co-Chair**
- 2019 **WISH at CHI 2019**, *Symposium of the Workgroup on Interactive Systems in Health (WISH), SIGCHI conference on human factors in computing systems (CHI)*.  
**Co-Chair**
- 2018 **Pervasive Health 2018**, *Int. Conf. on Pervasive Computing Technologies for Healthcare*.  
**Program Co-Chair**
- 2016 **UbiComp 2016**, *ACM Int. Joint Conference on Pervasive and Ubiquitous Computing*.  
**Doctoral Colloquium Co-Chair**
- 2016 **Pervasive Health 2016**, *Int. Conf. on Pervasive Computing Technologies for Healthcare*.  
**General Co-Chair**
- 2016 **MLA 2016**, *Fifth Multimodal Learning Analytics Data Challenges*.  
**Workshop Organizing committee**
- 2014 **CHI 2014**, *SIGCHI conference on human factors in computing systems*.  
**Workshops Chair**
- 2013 **SenseCam and Pervasive Images 2013**, *International Symposium on Ethics, Analysis, and Applications of Life Logging Images to Health and Related Behaviors*.  
**Program Chair**
- 2013 **ICMI 2013**, *Grand Challenge Workshop on Multimodal Learning Analytics*.  
**Workshop Organizing committee**
- 2013 **PervasiveHealth 2013**, *International ICST Conference on Pervasive Computing Technologies for Healthcare*.  
**Publicity Chair**



- 2013 **CHI 2013**, *SIGCHI conference on human factors in computing systems.*  
*Workshops Chair*
- 2012 **PervasiveHealth 2012**, *International ICST Conference on Pervasive Computing Technologies for Healthcare.*  
*Local Chair*
- 2012 **IUI 2012**, *International Conference on Intelligent User Interfaces.*  
*Demo Chair*
- 2007 **CoPADD 2007**, *Internat. Workshop on Collaborating over Paper and Digital Documents.*  
*Administrative Assistant*
- 2006 **CoPADD 2006**, *Internat. Workshop on Collaborating over Paper and Digital Documents.*  
*Administrative Assistant*

#### Program Committees

- 2019 **PervasiveHealth 2019** – International ICST Conference on Pervasive Computing Technologies for Healthcare – Trento (Italy), May 2019
- 2018 **PervasiveHealth 2018** – International ICST Conference on Pervasive Computing Technologies for Healthcare – New York (USA), May 2018
- 2016 **MMHealth 2016** – International Workshop on Multimedia for personal health and health care – Amsterdam (The Netherlands), October 2016
- 2016 **ICT4AWE 2016** – International Conference on Information and Communication Technologies for Ageing Well and e-Health – Rome (Italy), April 2016
- 2015 **Ubicomp 2015** – ACM International Joint Conference on Pervasive and Ubiquitous Computing – Osaka (Japan), September 2015, *Papers and Notes*
- 2015 **CHI 2015** – SIGCHI conference on human factors in computing systems – Seoul (South Korea), April 2015, *Workshops Jury*
- 2014 **MobiWIS 2014** – International Conference on Mobile Web Information Systems– Barcelona (Spain), August 2014
- 2014 **CHI 2014** – SIGCHI conference on human factors in computing systems – Toronto (Canada), April 2014 – Associated Chair, *Specific Application Areas - Health*
- 2014 **PhyCS 2014** – International conference on Physiological Computing Systems – Lisbon (Portugal), January 2014
- 2013 **SenseCam 2013** – International Symposium on Ethics, Analysis, and Applications of Life Logging Images to Health and Related Behaviors – San Diego (USA), November 2013
- 2013 **PervasiveHealth 2013** – International ICST Conference on Pervasive Computing Technologies for Healthcare – Venice (Italy), May 2013
- 2013 **CHI 2013** – SIGCHI conference on human factors in computing systems – Paris (France), May 2013 – Associated Chair, *Expanding Interaction through Technologies*
- 2012 **UCAmI 2012** – International Symposium on Ubiquitous Computing and Ambient Intelligence – Vitoria-Gasteiz (Spain), December 2012
- 2012 **IWAAL 2012** – International Workshop on Ambient Assisted Living – Vitoria-Gasteiz (Spain), December 2012

- 2012 **IE 2012** – International Conference on Intelligent Environments – Guanajuato (Mexico), June 2012
- 2012 **IUI 2012** – International Conference on Intelligent User Interfaces – Lisbon (Portugal), February 2012
- 2011 **UCAmI 2011** – International Symposium on Ubiquitous Computing and Ambient Intelligence – Riviera Maya (Mexico), December 2011

#### Workshops Organization

- 2022 **QTBPOC PD: Exploring the Intersections of Race, Gender, and Sexual Orientation in Participatory Design** – Workshop at CHI 2022, SIGCHI conference on human factors in computing systems – New Orleans (USA), May 2022
- 2019 **SIG: Spatiality of Augmented Reality User Interfaces** – Special Interest Group at CHI 2019, SIGCHI conference on human factors in computing systems – Glasgow (Scotland), May 2019
- 2017 **Learning from Failure: Designing for Complex Sociotechnical Systems** – Workshop at Ubicomp 2017, ACM Int. Joint Conference on Pervasive and Ubiquitous Computing – Maui (HI), September 2017
- 2016 **Designing the CORE: a platform for Connected and Open Research Ethics** – Workshop at PervasiveHealth 2016, International ICST Conference on Pervasive Computing Technologies for Healthcare – Cancun (Mexico), May 2016
- 2016 **Using a Design-Thinking to Inform the Connected and Open Research Ethics (CORE) Project: A Participatory Approach** – Seminar at the Society for Behavioral Medicine Meeting 2016 – Washington D.C. (USA), March 2016
- 2014 **User-Centered Design of Pervasive Healthcare Applications** – Workshop at PervasiveHealth 2014, International ICST Conference on Pervasive Computing Technologies for Healthcare – Oldenburg (Germany), May 2014

#### Session Chair

- 2022 **CHI 2022** SIGCHI conference on human factors in computing systems – New Orleans (USA), May 2022 – *UX of XR*
- 2021 **CHI 2021** SIGCHI conference on human factors in computing systems – New Orleans (USA), May 2021 – *Clinical Support – C*
- 2019 **PervasiveHealth 2019** International Conference on Pervasive Computing Technologies for Healthcare – Trento (Italy), May 2019 – *Children and Youth*
- 2018 **CHI 2018** SIGCHI conference on human factors in computing systems – Montreal (Canada), May 2018 – *Meditation and Movement*
- 2017 **Ubicomp 2017** ACM Int. Joint Conference on Pervasive and Ubiquitous Computing – Maui (HI), September 2017 – *Health 1*
- 2016 **Ubicomp 2016** ACM Int. Joint Conference on Pervasive and Ubiquitous Computing – Heidelberg (Germany), September 2017 – *Supporting the visually and motor impaired*
- 2014 **CHI 2014** SIGCHI conference on human factors in computing systems – Toronto (Canada), April/May 2014 – *On and Above the Surface*

- 2013 **SenseCam 2013** International conference on SenseCam and Pervasive Imaging– San Diego (USA), November 2013 – *SenseCam Experiences*
- 2013 **CHI 2013** SIGCHI conference on human factors in computing systems – Paris (France), May 2013 – *Design for the Home*
- 2013 **PervasiveHealth 2013** International ICST Conference on Pervasive Computing Technologies for Healthcare – Venice (Italy), May 2013 – *Monitoring Sleep and Affect*

#### Panels

- 2021 **UCSD Design Lab** – Cultivating Culture Initiative – UCSD, La Jolla, CA (USA), September 2021 – Panel on Self Management
- 2014 **ISGS 2014** – 4<sup>th</sup> International Society of Gestures Studies 6 – UCSD, La Jolla, CA (USA), July 2014 – Gesture and Action Recognition, Panel on Sensing Technologies
- 2013 **SenseCam 2013** – 4<sup>th</sup> International Conference on SenseCam and Pervasive Imaging– UCSD, La Jolla, CA (USA), November 2013 – Frameworks to Guide Image Annotations
- 2012 **CSSA 2012** – 7<sup>th</sup> Annual Cognitive Science Conference – UCSD, La Jolla, CA (USA), April 2012 – Journey into Cognitive Science
- 2011 **WUC 2011** – 3<sup>rd</sup> Workshop Uniting the Californias – UCSD, La Jolla, CA (USA), November 2011 – Doctoral Consortium

#### Reviewing

##### Projects

- 2013, 2018, 2020 **NSF**, *US National Science Foundation, Directorate for Computer and Information Science and Engineering (CISE), Division of Information and Intelligent Systems (IIS).*
- 2020 **NSF**, *US National Science Foundation, Graduate Student Research Fellowship Program (GRFP).*
- 2017 **Royal Society of New Zealand**, *Marsden Fund .*
- 2016 **UCSD**, *Center for AIDS Research.*
- 2015 **UCSD**, *FISP Graduate Program.*
- 2012 **SER**, *Swiss State Secretariat for Education and Research Program.*

##### Journals

- 2017 – 2022 **IMWUT**, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies.*
- 2017 – 2018 **JCSCW**, *Journal of Computer Supported Cooperative Work.*
- 2012 – 2018 **IJHCS**, *International Journal of Human-Computer Studies.*
- 2015 – 2015 **ACM TACCESS**, *Transactions on Accessible Computing.*
- 2015 – 2018 **Oxford Journals, IWC**, *Interacting With Computers.*
- 2014 – 2015 **IEEE Pervasive Computing.**
- 2014 – 2014 **ACM TIIS**, *Transactions on Interactive Intelligent Systems.*
- 2014 – 2014 **ACM TOCHI**, *Transactions on Computer-Human Interaction.*
- 2014 – 2014 **PUC**, *Springer Personal and Ubiquitous Computing.*

### Conferences

- 2008 – 2022 **CHI**, *SIGCHI conference on Human factors in computing systems*.  
2008 – 2021 **UIST**, *ACM symposium on User Interface Software and Technology*.
- 2012 – 2019 **PervasiveHealth**, *International Conference on Pervasive Technology for Health*.  
2010 – 2018 **CSCW**, *ACM conference on Computer Supported Cooperative Work*.  
2013 – 2018 **TEI**, *International conference on Tangible and Embodied Interaction*.
- 2016 – 2017 **AMIA**, *American Medical Informatics Association Annual Symposium*.  
2016 – 2016 **HICCS**, *International Conference on System Science*.  
2014 – 2016 **Ubicomp**, *ACM International Joint Conference on Pervasive and Ubiquitous Computing*.  
2010 – 2015 **ITS**, *ACM conference on Interactive Tabletops and Surfaces*.  
2011 – 2013 **IUI**, *ACM International conference on Intelligent User Interfaces*.  
2011 – 2013 **MobileHCI**, *ACM conference on Human-Computer Interaction with Mobile Devices*.  
2012 – 2012 **IE**, *International conference on Intelligent Environments*.  
2010 – 2011 **EICS**, *SIGCHI symposium on Engineering Interactive Computing Systems*.  
2010 – 2011 **DIS**, *ACM conference on Designing Interactive Systems*.

### Professional Memberships

- Since 2004 ACM, Association for Computing Machinery (Member No. 3506717)  
Since 2006 ACM Special Interest Group on Human-Computer Interaction (SIGCHI)  
Since 2006 ACM Special Interest Group on Hypertext, Hypermedia and the Web (SIGWEB)  
Since 2004 IEEE, Institute of Electrical and Electronics Engineers (Member No. 80429397)  
Since 2004 IEEE Computer Society  
Since 2004 SI, Swiss Informatics Society (Member No. SI-6385)  
Since 2008 SI Special Interest Group on Software Ergonomics  
Since 2007 SI Special Interest Group on Information Systems (DBTA)

### University and Faculty Service

- 2022 – **UC San Diego, Design Lab**, *Associate Faculty Director*.  
2022 – 2024 **UC San Diego – Designing Just Futures Cluster Hire**, *Faculty Search Committee Chair*.  
2021 – 2022 **UC San Diego, Design Lab**, *Faculty Search Committee Chair*.  
2019 – **UC San Diego, Dept. of Computer Science and Engineering**, *MS Affair Committee*.  
2014 – 2020 **UC San Diego, Dept. of Computer Science and Engineering**, *Women and Information Technology (WIT) Committee*.  
2014 – 2019 **UC San Diego, Dept. of Computer Science and Engineering**, *MS Admission Committee*.  
2015 – 2018 **UC San Diego, Office of Research Affairs**, *Frontiers of Innovation Scholar Program, Graduate Review Committee*.

- 2013 – 2015 **UC San Diego, Dept. of Computer Science and Engineering, MS Affair Committee.**
- 2014 **UC San Diego, Early Childhood Education Center Hiring Committee.**

### Community Service

- 2014 – 2022 **Torrey Pines Elementary School, La Jolla, CA, Science and Discovery Day - Director.**
- 2017 – 2022 **Torrey Pines Elementary School, La Jolla, CA, Technology Chair.**

### Invited Talks

- 2022 **From ARTEMIS to HERMES: Towards Effective Techno-Pedagogical Interactive Surgical Training**  
Intuitive Surgical (Sunnyvale, CA), June 6th 2022  
(Host: Dr. Sundar Murugappan)
- 2022 **Human-Centered Design for Successful Agile Software Development**  
Guide-Rails Developers+ Series, May 25th 2022  
(Host: Basheer Janjua)
- 2021 **Mixed Reality in Telemedicine Are we There Yet?**  
XCOM Labs (San Diego, CA), September 17th 2021  
(Host: Dr. Matt Grob)
- 2021 **HXI: Human-centered eXtended Intelligence**  
Big Bright Minds Annual Conference (Irvine, CA), October 28th 2021  
(Host: Beth Schnabel)
- 2021 **MedTech Horizons – Rethinking Medical Technology Horizons**  
InnovatorMD World Congress 2021, August 5th 2021  
(Host: Dr. Uli Chettipally)
- 2021 **Human-Centered and Ubiquitous Computing at UC San Diego**  
Intuitive Surgical (Sunnyvale, CA), February 24th 2021  
(Host: Dr. Sundar Murugappan)
- 2019 **Human-Centered Design of Extended Reality Collaborative Aids for Medical Interventions**  
Intuitive Surgical Research Symposium, Intuitive Surgical (Sunnyvale, CA), January 30th 2019  
(Host: Dr. Simon DiMaio)
- 2018 **Human-Centered Computing to the Rescue**  
ETH Zurich (Switzerland), June 1st 2018  
(Host: Dr. Moira Norrie)
- 2018 **Sensing – Understanding – Intervening: a Human-Centered Approach to Designing new Healthcare Technology**  
IBM TJ Watson Research Center, Yorktown Heights (NY), May 25th 2018  
(Host: Dr. Erhan Bilal)

- 2018 **PIRC-Net: Twitter-based on demand public health framework for HIV risk estimation**  
SoCal Social Workshop, UC Irvine, May 11th 2018  
(Host: Dr. Chen Li)
- 2017 **Sensing->Understanding-> Intervening: Human-Centered and Ubiquitous Computing for Health**  
University of Texas Houston (TX), October 25th 2017  
(Host: Dr. Elmer Bernstam)
- 2017 **Videogames to the rescue. Game Changer: Ubiquitous Computing for Health at UC San Diego**  
San Diego Fleet Science Museum, San Diego (CA) October 12 2017  
(Host: Andrea Decker)
- 2017 **Human-Centered and Ubiquitous Computing for Healthcare**  
Microsoft Research, Redmond (WA), August 31st 2017  
(Host: Dr. Desney Tan)
- 2017 **Sensing (and making sense of) Health: From Computational Ethnography to the UbiScope**  
University of California Irvine, Department of Informatics, February 24, 2017  
(Host: Dr. Yunan Chen)
- 2016 **Computational Ethnography and Multimodal Sensing for Healthcare**  
Institute for Neural Computation (INC) Chalk Talk Series, UC San Diego, Feb 18<sup>th</sup> 2016  
(Host: Dr. Leanne Chukoskie)
- 2015 **Analyzing Social Media to Characterize Local HIV At-risk Populations**  
AIDS Clinical Rounds, Antiviral Research Center (AVRC), UC San Diego, Sept 11<sup>th</sup> 2015  
(Host: Dr. Susan Little)
- 2015 **Multimodal Sensing and Visualization for Healthcare**  
Centro de Investigacion Cientifica y de Education Superior de Ensenada (CICESE), Ensenada, BC, Mexico, August 21<sup>st</sup> 2015  
(Host: Dr. Monica Tentori and Dr. Jesus Favela)
- 2014 **Ethical dimensions of mobile health devices in research**  
SRA Conference 2014, Coronado, CA, October 21<sup>st</sup> 2014  
(Host: Society of Research Administrators International)
- 2014 **Use of Mobile Technologies in Health Research: Exploring mHealth Ethics**  
Biomedical Ethics Seminar, UC San Diego, February 19<sup>th</sup> 2014  
(Host: Dr. Mary Devereaux)
- 2014 **Human-Computer Interaction for Health: Challenges and Opportunities for Multimodal Health Information Systems**  
HEC Lausanne, University of Lausanne, Switzerland, February 4<sup>th</sup> 2014  
(Host: Dr. Christine Legner)
- 2013 **Interactive Information Visualization for Neurobehavioral HIV research**  
Center For AIDS Research, Neurobehavioral Scientific Focus Group, UC San Diego, December 5<sup>th</sup> 2013  
(Host: Dr. Steven Woods and Dr. Igor Grant)



- 2013 **Human-Centered Computing for Critical Multimodal Cyber-Physical Environments**  
IDIAP Research Institute, Martigny, Switzerland, November 5<sup>th</sup> 2013  
(Host: Dr. Hervé Bourlard)
- 2013 **Prevention of HIV Through better Data Visualization**  
Center For AIDS Research, Prevention Science Scientific Focus Group , UC San Diego, July 16<sup>th</sup> 2013  
(Host: Dr. Susan Little)
- 2012 **Authoring Pen and Paper Language Activities**  
Faculty of Informatics, University of Lugano, Switzerland, Dec 17<sup>th</sup> 2012  
(Host: Dr. Elisa Rubegni and Dr. Monica Landoni)
- 2012 **Ubiquitous Sketching (Am I Drawing Now?)**  
Experimental Drawing Studio, Visual Arts Department, UC San Diego, USA Dec 4<sup>th</sup> 2012  
(Host: Dr. Amy Adler)
- 2012 **Multimodal Interfaces and Interaction for Physical/Digital Information Spaces: Applications in Healthcare**  
Center for Wireless Population Health Systems, Calit2, San Diego, USA July 27<sup>th</sup> 2012  
(Host: Dr. Kevin Patrick)
- 2012 **On Paper, Walls and Desks: Exploring Interactions Beyond the Desktop**  
Berkeley Multi-Surface Workshop 2012, Berkeley Institute of Design, UC Berkeley, USA, May 15<sup>th</sup> 2012 (Hosts. Dr. Bjoern Hartman, Dr. Michel Beaudouin-Lafon, Dr. Wendy Mackay, Dr. Clemens Klokmoose)
- 2012 **The Medical Office of the Future**  
Electronic Health Records Workshop, VA San Diego Health Services R&D, La Jolla, USA, February 22<sup>nd</sup> 2012 (Host: Dr. Zia Agha)
- 2012 **On Walls, Desks, Paper, Fingers: Interactions around Physical and Digital Interfaces**  
SIGCHI Chapter Paris, France, February 2<sup>nd</sup> 2012  
(Hosts. Dr. Michel Beaudouin-Lafon, Dr. Wendy Mackay)
- 2012 **Extended Pen+ Tools for Multimodal Analysis and Interaction**  
IDIAP Research Institute, Martigny, Switzerland, January 31<sup>st</sup> 2012  
(Host: Dr. Hervé Bourlard)
- 2012 **Pen and Paper Computing: an old Technology in a modern World**  
CRAFT Lab, EPFL Lausanne, Switzerland, January 30<sup>th</sup> 2012  
(Host: Dr. Pierre Dillenbourg)
- 2011 **Technology in Context: should we keep the man in the loop?**  
Introductory Keynote – 4<sup>th</sup> International Conference of Computer Science (CiComp), Ensenada, Mexico, November 3<sup>rd</sup> 2011
- 2011 **Paper-Based Links for Cross-Media Information Spaces**  
FX Palo Alto Laboratory, Palo Alto, CA, USA, February 16<sup>th</sup> 2011  
(Host: Dr. Chunyuan Liao)
- 2010 **Pen and Paper Everywhere**  
Faculty of Informatics, Università della Svizzera Italiana (USI), Lugano, Switzerland, December 14<sup>th</sup> 2010  
(Host: Dr. Marc Langheinrich)

- 2010 **Pen Computing in the Wild**  
Department of Informatics, University of Zurich, Switzerland, December 10<sup>th</sup> 2010 (Host: Prof. Elaine Huang)
- 2010 **PenPointing at UCSD - 1 year of pen-based research in and around San Diego**  
DCog-HCI Lab, University of California San Diego (UCSD), October 20<sup>th</sup> 2010  
(Host: Dr. Jim Hollan, Prof. Ed Hutchins)
- 2009 **Beyond Simple Paper-Digital Interfaces**  
Livescribe Headquarters, Oakland, CA, December 1<sup>st</sup> 2009
- 2009 **iPaper @ UCSD**  
Ubiquitous Computing and Social Dynamics Meeting, University of California San Diego (UCSD), October 15<sup>th</sup> 2009  
(Host: Dr. Bill Griswold)
- 2009 **Interplay of Paper and Digital Documents**  
DCog-HCI Lab, University of California San Diego (UCSD), April 1<sup>st</sup> 2009  
(Host: Dr. Jim Hollan, Dr. Ed Hutchins)
- Interactive Paper: Supporting Interactions across the Paper-Digital Divide**  
SBB IT Developer Day, Muntelier, Switzerland, December 16<sup>th</sup> 2008
- 2008 **Interactive Paper: Supporting Interactions across the Paper-Digital Divide**  
Jazoon08, The International Conference on Java Technology, Zurich, Switzerland, June 24<sup>th</sup> 2008

### Exhibitions and Digital Arts

#### **CrowdCave Interactive Installation**

Initiative for Digital Exploration of Arts and Science (IDEAS), UC San Diego, La Jolla, USA, June 15<sup>th</sup> 2015 (with Emily Grenader and Danilo Gasques-Rodrigues)

#### **VideoMob Interactive Installation**

UC San Diego Filmatic Festival, La Jolla, USA, April 24-27<sup>th</sup> 2014 (with Emily Grenader, Danilo Gasques-Rodrigues and Fernando Nos)

#### **Carried Array**

Athenaeum Music & Arts Library, La Jolla, USA, Nov 9- Dec 28<sup>th</sup> 2013 (with Emily Grenader, Danilo Gasques-Rodrigues and Fernando Nos)

#### **Generosa Enterprise, Visioni sul Monte**

Monte, Valle di Muggio, Switzerland, Jul-Aug 2006 (with Curt-Walter Tannhäuser, Beat Signer and Moira Norrie)

#### **Generosa Enterprise, Welten des Wissens**

Exhibition for the ETH Zurich 150 Years Jubilee, Platzspitz Zurich, Switzerland, April-May 2005 (with Curt-Walter Tannhäuser, Beat Signer and Moira Norrie)

#### **Lost Cosmonauts**

Artists in Lab Exhibition ETH Zurich, Switzerland, December 2004 (with Axel Vogelsang, Beat Signer and Moira Norrie)

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## Teaching

University of California San Diego, USA

*Course Director*

- Spring 2021–22 **CSE 190/291: Human-Computer Interaction for Health**, *Instructor.*  
Winter 2021–22 **WES 237a: Introduction to Embedded System Design**, *Instructor.*  
Winter 2017–20 **CSE 190/291: Human-Computer Interaction for Health**, *Instructor.*  
Fall 2012–22 **CSE 118: Applications in Ubiquitous Computing**, *Instructor.*  
Fall 2014–2022 **CSE 218: Advanced Topics in Software Engineering**, *Instructor.*  
Spring 2014–2016 **COGS 121: Human-Computer Interaction Programming Studio**, *Instructor.*

### *Guest Lectures*

- Spring 2022 **DSGN 201: Human-Centered Design and Complex Sociotechnical Systems**, *Human-centered eXtended Intelligence: Exploring the design space of AI and XR applied to Health and Healthcare.*
- Spring 2021 **MED 265: Informatics in Clinical Settings**, *Assessment of Clinical User Needs.*  
Fall 2021 **School of Medicine Innovation in Healthcare**, *Human-Centered Design for Health.*  
Fall 2020 **School of Medicine Innovation in Healthcare**, *Human-Centered Design for Health.*  
Fall 2019 **School of Medicine Innovation in Healthcare**, *Human-Centered Design for Health.*  
Winter 2019 **MED 265: Informatics in Clinical Settings**, *Assessment of Clinical User Needs.*  
Fall 2018 **School of Medicine Innovation in Healthcare**, *Human-Centered Design for Health.*  
Winter 2018 **MED 265: Informatics in Clinical Settings**, *Assessment of Clinical User Needs .*  
Fall 2017 **School of Medicine Innovation in Healthcare**, *Human-Centered Design for Health.*  
Fall 2017 **School of Medicine Innovation in Healthcare**, *Ubiquitous Computing in Healthcare.*  
Winter 2016 **DSE 241: Data Visualization**, *Exploratory data analysis and visual analytics for public health.*  
Winter 2015 **MED 265: Informatics in Clinical Settings**, *Assessment of Clinical User Needs .*  
Summer 2012 **MUS 116: Radiohead, Björk and Jazz: The Two Way Flow of Improvisation**, *Improvisation and Tangible User Interfaces, the case of the ReacTable.*  
Winter 2012 **COGS 91: SCANS, Careers in Cognitive Science**, *Pen and Paper Computing in the Wild.*  
Winter 2012 **COGS 121: Human Computer Interaction Programming**, *Developing Rich and Social Web-based Applications.*  
Fall 2011 **COGS 120: Human Computer Interaction**, *Paper Computing, old technology in a modern world.*  
Fall 2011 **CSE 118: Applications in UbiComp**, *Pen and Paper Interfaces.*  
Fall 2010 **CSE 118: Applications in UbiComp**, *Hands on Digital Pen and Paper.*  
Fall 2010 **COGS 120: Human Computer Interaction**, *DCog-HCI projects – Digital Pen and Paper.*

- Winter 2010 **COGS 120: Human Computer Interaction**, *Interactive Paper: Technologies, Applications and Opportunities.*  
*Supervisor of Laboratory and Seminar Courses*
- Spring 2011 **COGS 102c: Cognitive Design.**
- Winter 2011 **COGS 220: Information Visualization Seminar.**
- Spring 2010 **COGS 102c: Cognitive Design.**
- Winter 2010 **COGS 220: Information Visualization Seminar.**

## ETH Zurich, Switzerland

### *Lecturer*

Summer 2007 **Web Engineering**, *Guest Lecture: From Web to Mobile and Social Information Systems.*

Summer 2006 **Web Engineering**, *Guest Lecture: From Web to Mobile and Social Information Systems.*

### *Teaching Assistant*

Spring 2007–08  
 + Summer 2006 **Computer Supported Cooperative Work**, *Seminar Supervision.*

Fall 2007 +  
 Winter 2005–07 **Information Systems (Advanced Course)**, *Tutorial.*

Summer 2005–07 **Informatics II for Civil Engineers**, *Tutorial.*

Winter 2005–07 **Mobile and Personal Information Systems**, *Laboratory.*

Winter 2004–06 **Advanced Topics in Information Systems**, *Seminar Supervision.*

Summer 2005 **Global Information Systems**, *Tutorial.*

## Centro Professionale Trevano / AIET Gordola, Switzerland

### *Lecturer*

2008/2009 **Network Engineering**, *Exam preparation courses*, *Instructor.*

2003/2004 **Introduction to Databases and Information Systems**, *Instructor.*

2003/2004 **Network Engineering for network technicians**, *Instructor.*

2003/2004 **Mathematics for mechanical draughtsmen**, *Instructor.*

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## Student Advisor

### University of California San Diego, USA

#### *Ph.D. and MFA Students*

2022 – Present **Weichen Liu**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

2021 – Present **Menghe Zhang**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

2020 – Present **Chen Chen**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

2020 – Present **Matin Yarmand**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

2018 – Present **Janet Johnson**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

2017 – Present **Danilo Gasques**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.

Nadir Weibel – University of California San Diego – La Jolla CA, 92093-0404, USA

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- 2015 – Present **Steven Rick**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.
- 2020 – 2022 **Naba Rizvi**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.
- 2020 – 2022 **Thomas Sharkey**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Chair.
- 2016 – 2020 **Vish Ramesh**, *Dept. of Bioengineering*, Ph.D. Committee Chair.
- 2017 – 2018 **Yonatan Vaizman**, *Dept. of Electrical and Computer Engineering*, Ph.D. Committee Member, Committee Chair: Gert Lanckriet.
- 2014 – 2017 **Katherine Ellis**, *Dept. of Electrical and Computer Engineering*, Ph.D. Committee Member, Committee Chair: Gert Lanckriet.
- 2014 – 2018 **Adam Rule**, *Dept. of Cognitive Science*, Advisor, Committee Chair: James D. Hollan.
- 2013 – 2017 **Gina Merchant**, *Dept. of Family and Preventive Medicine*, Ph.D. Committee Member, Committee Chair: Kevin Patrick.
- 2009 – 2015 **Laura Pina**, *Dept. of Computer Science and Engineering*, Ph.D. Committee Member, Committee Chair: William G. Griswold.
- 2013 – 2014 **Emily Grenader**, *Dept. of Visual Arts*, MFA Committee Member, Committee Chair: Amy Adler.
- 2009 – 2013 **Adam Fouse**, *Dept. of Cognitive Science*, Graduated in February 2013, PhD. Advisor: James D. Hollan.
- 2009 – 2011 **Anne Marie Piper**, *Dept. of Cognitive Science*, Graduated in May 2011, PhD. Advisor: James D. Hollan.
- 2009 – 2011 **Lisa Cowan**, *Dept. of Computer Science and Engineering*, Graduated in May 2011, PhD. Advisor: William G. Griswold.

#### *Master Students*

- 2021 – 2022 Manas Bedmutha, Florence Wu, , Hollie David.
- 2020 – 2021 Alexander Schonken, Zhuoqun Robin Xu, Florence Wu, Hollie David, Zhiwei Ren.
- 2019 – 2020 Alexander Schonken, Zhuoqun Robin Xu.
- 2019 – 2020 Zhuoqun Robin Xu, Wanze Xie.
- 2018 – 2019 Wanze, Xie, Ajay Mohan.
- 2017 – 2018 Amarnath Vysyaraju, Ru Wang, Ajay Mohan.
- 2016 – 2017 Angie Nguyen, Ajay Mohan, Ruchika Shivaswamy, Yashank Sakhardande, Albert Chu, Reshul Surendra Dani, Xueyang Li, Rahul Ramath, Rajat Sharma, Divya Aggarwal, Calvin Gomez, Janet Johnson, Gubbala Madhuri, Amey Paranjape, Khalid.
- 2015 – 2016 Ankur Jain, Nida Hussain, Vish Ramesh, Mustafa Hussain (Florida Poly).
- 2015 – 2016 Li Qi, Chenfu Xie, Purvi Desai, Pallavi Agarwal, Vincent Chan.
- 2014 – 2015 Narendran Thangarajan, Pavan Kumar Pavagada Nagaraja, Chenfu Xie, Daniel Kaulen (RWTH Aachen), Haouan Li, Yu Xia, Brian Anderson, Yingyan Hua.
- 2013 – 2014 Sandy Law, Constantine Chen, Amell Ali Alghamdi.
- 2012 – 2013 Julia Lin, Yang Liu, Ryan Kanoknukulchai, Shimona Carvalho.

#### *Undergraduate Honors Thesis*

- September 2013 – June 2014 **Ram Dixit**, *Dept. of Cognitive Science*, Workflow in Clinical Settings.
- September 2011 – June 2012 **Matthew Hong**, *Dept. of Cognitive Science*, Multimodal Cues for Desktop Workspace Interaction: Microanalysis of Active Reading Behaviors, Graduated in June 2012, now at Carnegie-Mellon University.
- September 2010 – June 2011 **Arvind Satyanarayan**, *Dept. of Computer Science and Engineering*, Using an Overlay Interface to Effectively Interact with Large Wall Displays, Graduated in June 2011, now at Stanford.
- September 2010 – June 2011 **Amanda Lazar**, *Dept. of Electrical Engineering*, Web-based Interfaces for Authoring Multimodal Paper-Digital Documents, Graduated in June 2011, now at University of Washington.
- September 2010 – June 2011 **Amanda Legge**, *Dept. of Cognitive Science*, Representing Audio Narrations of Photos, Graduated in June 2011.
- October 2009 – June 2010 **Nastasha Tan**, *Dept. of Cognitive Science*, Understanding How Different Life-Logs Support Our Memory for the Past, Graduated in June 2010, now at IDEO.
- October 2009 – June 2010 **Brendan Jonesrebandt**, *Dept. of Cognitive Science*, Event Segmentation of Life-Logging Technologies, Graduated in June 2010.

#### *Undergraduate Research Assistants / Independent Study*

- 2010 – 2015 **Arvind Satyanarayan, Adi Singer, Chelsea Baltierra, Bryan Ransil, Carlos Garibay, Matthew Rasmussen, Amer Sinha, Narine Cholakyan, Enrico Tanuwidjaja, Derek Huyhn, Kirsten Koa, Calvin Nguyen, Churen Shao, Patrick Torbett, Angie Nguyen, Christine Ho**, *Dept. of Computer Science and Engineering*.
- 2010 – 2013 **Reid Oda, Amanda Legge, Nancy Lam, Ram Dixit, Jenny Lyons, Steven Rick**, *Dept. of Cognitive Science*.
- 2010 **Amanda Lazar**, *Dept. of Electrical Engineering*.
- 2010 **Christian Corsten**, *RWTH Aachen, Germany (UCSD internship)*.

#### *ETH Zurich, Switzerland*

##### *Master Theses*

- 2007 – 2008 **Monica Frisoni, Patrick Ponti**, *Dept. of Computer Science*.

##### *Bachelor Theses / Term Projects*

- 2007 – 2008 **Hermann Hofstetter (University of Konstanz, Germany), Patrick Ponti**, *Dept. of Computer Science*.
- 2006 – 2007 **Monica Frisoni**, *Dept. of Computer Science*.
- 2005 – 2006 **Patrick Ponti, Sandra Brockmann**, *Dept. of Computer Science*.

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## References

**Prof. James D. Hollan**, Design Lab, UC San Diego, USA

Nadir Weibel – University of California San Diego – La Jolla CA, 92093-0404, USA

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**Prof. William G. Griswold**, CSE Department, UC San Diego, USA

**Prof. Kevin Patrick**, Preventive Medicine Department, UC San Diego, USA

**Prof. Em. Don Norman**, Design Lab, UC San Diego, USA

**Prof. Scott Klemmer**, Design Lab, UC San Diego, USA

**Dr. Zia Agha**, West Health Institute, La Jolla, CA, USA

**Dr. Sharon Oviatt**, Incaa Designs, Bainbridge Island, WA, USA

**Prof. Em. Moira C. Norrie**, Computer Science Department, ETH Zurich, Switzerland

**Prof. Em. Edwin Hutchins**, CogSci Department, UC San Diego, USA

**Prof. Wendy MacKay**, INRIA and Université Paris Sud, Paris, France

**Prof. Julie Kientz**, University of Washington, CSE and HCDE Department, Seattle, USA

**Prof. Paul Luff** Management Department, King's College London, UK

**Prof. Beat Signer**, Department of Computer Science, Vrije Universiteit Brussel, Belgium

**Prof. Marc Langheinrich**, Faculty of Informatics, University of Lugano (USI), Switzerland

**Prof. Davey Smith**, Dept. of Medicine, Center for AIDS Research, UC San Diego, USA

**Prof. Susan Little**, Dept. of Medicine, AntiViral Research Center, UC San Diego, USA