Xiang 'Anthony' Chen

6730A Boelter Hall 580 Portola Plaza Los Angeles, CA 90095 U.S.A.

Phone: +1-412-980-5740 email: xac@ucla.edu
URL: https://xac.is

Current Position

Assistant Professor, Department of Electrical $\mathring{\sigma}$ Computer Engineering, UCLA Visiting Faculty, Salesforce Research

Research Interests

We believe the ultimate goal of inventing the computer is to augment our human selves. To achieve this, my group's research focuses on the following three topics:

- **Intelligent User Interfaces**: how can we design interfaces of intelligent systems that augment a user to accomplish domain-specific tasks?
- **Sensing** & **Interaction Techniques**: how can we invent new sensors and devices that afford novel experiences for users to interact with a computer?
- **Computational Design** & **Fabrication**: how can we build computational platforms that empower users to realize their ideas into digital or physical artifacts?

Education

2012-17	Carnegie	Mellon	University	y
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Рн.D. in Computer Science, School of Computer Science

Advisors: Scott Hudson and Stelian Coros; Committee: Jodi Forlizzi and Tovi Grossman

2010-12 University of Calgary

M.Sc. in Computer Science, Department of Computer Science

Advisors: Saul Greenberg and Richard Levy; Committee: Barry Wylant and Larry Katz

Zhejiang University

B.Eng. in Computer Science, Chu Kochen Honors College

2010 Universidad Politécnica de Madrid

Exchange student in Telecommunication Engineering, E.T.S.I. Telecomunicación

2003-06 Affiliated High School of South China Normal University

Innovation Class student in Science

Honors & Awards

	OND Voung Investigator Award
2021	ONR Young Investigator Award
2021	NSF CAREER Award
2020	Hellman Fellowship
2020	CHI Best Paper Honorable Mentioned Award
2018	NSF CISE Research Initiation Initiative (CRII) Award
2018	CHI Best Paper Honorable Mentioned Award
2016	Adobe Research PhD Fellowship
2015	Qualcomm Innovation Fellowship Finalist
2014	UIST Best Paper Award
2014	CHI Best Paper Award
2014	CHI Best Talk Award
2013	Qualcomm Innovation Fellowship Finalist
2012	University of Calgary Department Research Award
2010	Academic Project Scholarships in Madrid-Spain for Chinese Technical Students
2009	Zhejiang University Academic Scholarship
2007-08	University of Hong Kong Crimson Summer Exchange Co-Fellowship
	Professional Experience
2018	Professional Experience Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms.
2018	Tableau Research, Palo Alto
	Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms. Google Research, Mountain View Research Intern in Mobile Interactive Computing Group with Yang Li.
2015	Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms. Google Research, Mountain View Research Intern in Mobile Interactive Computing Group with Yang Li. Developed a user-defined cross-device interaction framework. Microsoft Research, Redmond Research Intern in Natural Interaction Research with Bill Buxton and Ken Hinckley.
2015	Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms. Google Research, Mountain View Research Intern in Mobile Interactive Computing Group with Yang Li. Developed a user-defined cross-device interaction framework. Microsoft Research, Redmond Research Intern in Natural Interaction Research with Bill Buxton and Ken Hinckley. Developed a multi-wearable interactive system. Autodesk Research, Toronto Research Intern/Consultant in User Interface Research Group with Tovi Grossman, Daniel Wigdor and George Fitzmaurice.
2015	Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms. Google Research, Mountain View Research Intern in Mobile Interactive Computing Group with Yang Li. Developed a user-defined cross-device interaction framework. Microsoft Research, Redmond Research Intern in Natural Interaction Research with Bill Buxton and Ken Hinckley. Developed a multi-wearable interactive system. Autodesk Research, Toronto Research Intern/Consultant in User Interface Research Group with Tovi Grossman, Daniel Wigdor and George Fitzmaurice. Developed interaction techniques with smart watches. Microsoft Research, Redmond Research Intern in Natural Interaction Research with Ken Hinckley and Hrvoje Benko.

Developed routines for testing data-centric web-based programs.

Publications

Dissertations

- Xiang 'Anthony' Chen. Making Fabrication Real: Fabrication for Real Usage, with Real Objects, by Real People Doctoral dissertation, Carnegie Mellon University.
- Xiang 'Anthony' Chen. Body-Centric Interaction with a Screen-based Handheld Device. Master's thesis, University of Calgary.

Conference $\mathring{\sigma}$ Journal Papers

- Ruolin Wang, Zixuan Chen, Mingrui Zhang, Zhaoheng Li, Zhixu Liu, Zihan Dang, Chun Yu, Xiang 'Anthony' Chen. Revamp: Enhancing Accessible Information Seeking Experience of Online Shopping for Blind & Low Vision Users. *Proc. ACM CHI 2021*. Acceptance Rate: 26.3%.
- CHI 2021 Xingyu Liu, Patrick Carrington, **Xiang 'Anthony' Chen**, Amy Pavel. What Makes Videos Accessible to Blind and Visually Impaired Users? *Proc. ACM CHI 2021*. Acceptance Rate: 26.3%.
- CSCW 2021 Hongyan Gu, Jingbin Huang, Lauren Hung, **Xiang 'Anthony' Chen**. Lessons Learned from Designing an AI-Enabled Diagnosis Tool for Pathologists. *Proc. ACM on HCI (CSCW)*.
- IUI 2021 Juan Rebanal, Jordan Combitsis, Yuqi Tang, Xiang 'Anthony' Chen. XAlgo: a Design Probe of Explaining Algorithms' Internal States via Question-Answering. Proc. ACM IUI 2021. Acceptance Rate: 25%.
- Yuan Liang, Liang Qiu, Tiancheng Lu, Zhujun Fang, Dezhan Tu, Jiawei Yang, Tiandong Zhao, Yiting Shao, Kun Wang, **Xiang 'Anthony' Chen**, Lei He. OralViewer: 3D Demonstration of Dental Surgeries for Patient Education with Oral Cavity Reconstruction from a 2D Panoramic X-ray. *Proc. ACM IUI 2021*. Acceptance Rate: 25%.
- Jeeeun Kim, James Zhou, Amanda Ghassaei, **Xiang 'Anthony' Chen**. OmniSoft: A Design Tool for Soft Objects by Example. *Proc. ACM TEI 2021*. Acceptance Rate: 29.9%.
- VRST 2020 Yudai Tanaka, Arata Horie, **Xiang 'Anthony' Chen**. DualVib: Simulating Haptic Sensation of Dynamic Mass by Combining Pseudo-Force and Texture Feedback. *Proc. ACM VRST 2020*, 1-10. Acceptance Rate: 26.5%.
- UIST 2020 Jiahao Li, Meilin Cui, Jeeeun Kim, **Xiang 'Anthony' Chen**. Romeo: A Design Tool for Embedding Transformable Parts in 3D Models to Robotically Augment Default Functionalities. *Proc. ACM UIST* 2020, 897-911. Acceptance Rate: 21%.
- Ritam Sarmah, Yunpeng Ding, Di Wang, Cheuk Yin Phipson Lee, Toby Jia-Jun Li, **Xiang 'Anthony' Chen**. Geno: A Developer Tool for Authoring Multimodal Interaction on Existing Web Applications. *Proc. ACM UIST 2020*, 1169-1181. Acceptance Rate: 21%.
- Yao Xie, Melody Chen, David Kao, Ge Gao, **Xiang 'Anthony' Chen**. CheXplain: Enabling Physicians to Explore and Understand Data-Driven, AI-Enabled Medical Imaging Analysis. *Proc. ACM CHI 2020*, 1-13. Acceptance Rate: 24.3%.
- Yuan Liang, Hsuan-Wei Fan, Zhujun Fang, Leiying Miao, Wen Li, Xuan Zhang, Weibin Sun, Kun Wang, Lei He, **Xiang 'Anthony' Chen**. OralCam: Enabling Self-Examination and Awareness of Oral Health Using a Smartphone Camera. *Proc. ACM CHI 2020*. Acceptance Rate: 24.3%.
 - **BEST PAPER HONORABLE MENTION TOP 5%**

- Runchang Kang, Anhong Guo, Gierad Laput, Yang Li, **Xiang 'Anthony' Chen**. Minuet: Multimodal Interaction with an Internet of Things. *Proc. ACM SUI 2019*, 1-10. Acceptance Rate: 23%.
- UIST 2019 Jiahao Li, Jeeeun Kim, **Xiang 'Anthony' Chen**. Robiot: A Design Tool for Actuating Everyday Objects with Automatically Generated 3D Printable Mechanisms. *Proc. ACM UIST 2019*, 673–685. Acceptance Rate: 24%.
- UIST 2018 Da-Yuan Huang, Teddy Seyed, Linjun Li, Zhihao Yao, Yuchen Jiao, **Xiang 'Anthony' Chen**, Xing-Dong Yang. Orecchio: Extending Body-Language through Actuated Static and Dynamic Auricular Postures. *Proc. ACM UIST 2018*, 697–710. Acceptance Rate: 21.3%.
- CHI 2018 Xiang 'Anthony' Chen, Ye Tao, Guanyun Wang, Runchang Kang, Tovi Grossman, Stelian Coros, Scott Hudson. Forte: User-Driven Generative Design. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- CHI 2018 Xiang 'Anthony' Chen, Stelian Coros, Scott Hudson. Medley: A Library of Embeddables to Explore Rich Material Properties for 3D Printed Objects. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- Un Gong, Zheer Xu, Qifan Guo, Teddy Seyed, **Xiang 'Anthony' Chen**, Xiaojun Bi, Xing-Dong Yang. WrisText: One-handed Text Entry on Smartwatch using Wrist Gestures. *Proc. ACM CHI* 2018, 1-14. Acceptance Rate: 25.7%.

 BEST PAPER HONORABLE MENTION TOP 5%
- CHI 2018 Byoungkwon An, Ye Tao, Jianzhe Gu, Tingyu Cheng, **Xiang 'Anthony' Chen**, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Shigeo Takahash, Hsiang-Yun Wu, Teng Zhang, Lining Yao. Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- CHI 2017 Anhong Guo, Jeeeun Kim, **Xiang 'Anthony' Chen**, Tom Yeh, Scott Hudson, Jennifer Mankoff, Jeffrey Bigham. Façade: Auto-generating Tactile Interfaces to Appliances. *Proc. ACM CHI 2017*, 5826-5838. Acceptance Rate: 25%.
- TOCHI 2017 **Xiang 'Anthony' Chen**, Yang Li. Improv: An Input Framework for Improvising Cross-Device Interaction By Demonstration. *ACM TOCHI*, 24(2), 15.
- UIST 2016 **Xiang 'Anthony' Chen**, Jeeeun Kim, Jennifer Mankoff, Tovi Grossman, Stelian Coros, Scott Hudson. Reprise: A Design Tool for Specifying, Generating, and Customizing 3D Printable Adaptations on Everyday Objects. *Proc. ACM UIST 2016*, 29-39. Acceptance Rate: 20.6%.
- UIST 2016 **Xiang 'Anthony' Chen**, Yang Li. Bootstrapping User-Defined Body Tapping Recognition with Offline-Learned Probabilistic Representation. *Proc. ACM UIST 2016*, 359-364. Acceptance Rate: 20.6%.
- Anhong Guo, **Xiang 'Anthony' Chen**, Haoran Qi, Samuel White, Suman Ghosh, Chieko Asakawa, Jeffrey Bigham. VizLens: A Robust and Interactive Screen Reader for Interfaces in the Real World. *Proc. ACM UIST 2016*, 651-664. Acceptance Rate: 20.6%.
- Vikram Kamath Cannanure, **Xiang 'Anthony' Chen**, Jennifer Mankoff. Twist 'n' Knock: A One-handed Gesture for Smart Watches. *Proc. GI 2016*, 189-193. Acceptance Rate: 39.4%.
- Adrian de Freitas, Michael Nebeling, **Xiang 'Anthony' Chen**, Junrui Yang, Akshaye Shreenithi Kirupa Karthikeyan Ranithangam, Anind Dey. Snap-To-It: A User-Inspired Platform for Opportunistic Device Interactions. *Proc. ACM CHI 2016*, 5909-5920. Acceptance Rate: 23.4%.
- IUI 2016 Gierad Laput, **Xiang 'Anthony' Chen**, Chris Harrison. Sweepsense: Ad Hoc Configuration Sensing Using Reflected Swept-Frequency Ultrasonics. *Proc. ACM IUI 2016*, 332-335.
- UIST 2015 **Xiang 'Anthony' Chen**, Stelian Coros, Jennifer Mankoff, Scott Hudson. Encore: 3D Printed Augmentation of Everyday Objects with Printed-Over, Affixed and Interlocked Attachments. *Proc.*

- ACM UIST 2015, 73-82. Acceptance Rate: 23.6%.
- UIST 2015 Gierad Laput, **Xiang 'Anthony' Chen**, Chris Harrison. 3D Printed Hair: Fused Deposition Modeling of Soft Strands, Fibers, and Bristles. *Proc. ACM UIST 2015*, 593-597. Acceptance Rate: 23.6%.
- MobileHCI Tovi Grossman, **Xiang 'Anthony' Chen**, George Fitzmaurice. Typing on Glasses: Adapting Text Entry to Smart Eyewear. *Proc. ACM MobileHCI 2015*, 144-152. Acceptance Rate: 25.2%.
- UIST 2014 Ken Hinckley, Michel Pahud, Hrvoje Benko, Pourang Irani, Marcel Gavriliu, François Guimbretière, Xiang 'Anthony' Chen, Fabrice Matulic, William Buxton, Andrew Wilson. Sensing Techniques for Tablet+Stylus Interaction. *Proc. ACM UIST 2014*, 605-614. Acceptance Rate: 22.2%.

 **BEST PAPER AWARD TOP 1%
- UIST 2014 **Xiang 'Anthony' Chen**, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott Hudson. Air+Touch: Interweaving Touch & In-Air Gestures. *Proc. ACM UIST 2014*, 519-525. Acceptance Rate: 22.2%.
- UIST 2014 **Xiang 'Anthony' Chen**, Tovi Grossman, George Fitzmaurice. Swipeboard: A Text Entry Technique for Ultra-Small Interfaces That Supports Novice to Expert Transitions. *Proc. ACM UIST 2014*, 615-620. Acceptance Rate: 22.2%.
- UIST 2014 Gierad Laput, Robert Xiao, **Xiang 'Anthony' Chen**, Scott Hudson, Chris Harrison. Skin Buttons: Cheap, Small, LowPowered and Clickable Fixed-Icon Laser Projectors. *Proc. ACM UIST 2014*, 389-394. Acceptance Rate: 22.2%.
- CHI 2014 Xiang 'Anthony' Chen, Tovi Grossman, Daniel Wigdor, George Fitzmaurice. Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch. *Proc. ACM CHI 2014*, 159-168. Acceptance Rate: 22.8%.
 - P Best Paper Award Top 1%
- MobileHCI Xiang 'Anthony' Chen, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott Hudson. AroundBody Interaction: Sensing & Interaction Techniques for Proprioception-Enhanced Input with Mobile Devices. Proc. MobileHCI 2014, 287-290. Acceptance Rate: 21.3%.
- VC 2013 Bin Pan, Yong Zhao, Xiaoming Guo, **Xiang Chen**, Wei Chen, Qunsheng Peng. Perception-motivated visualization for 3D city scenes. *The Visual Computer* 29.4 (2013): 277-286.
- GI 2013 Ken Hinckley, **Xiang 'Anthony' Chen**, Hrvoje Benko. Motion and Context Sensing Techniques for Pen Computing. *Proc. GI 2013*, 71-78. Acceptance Rate: 33%.
- MobileHCI Xiang 'Anthony' Chen, Nicolai Marquardt, Anthony Tang, Sebastian Boring, Saul Greenberg.

 Extending a Mobile Device's Interaction Space through Body-Centric Interaction. *Proc. MobileHCI*2012, 151-160. Acceptance Rate: 25%.
- MobileHCI Sebastian Boring, David Ledo, **Xiang 'Anthony' Chen**, Anthony Tang, Nicolai Marquardt, Saul Greenberg. The Fat Thumb: Using the Thumb's Contact Size for Single-Handed Mobile Interaction. *Proc. MobileHCI 2012*, 39-48. Acceptance Rate: 25%.
- AVI 2012 Xiang 'Anthony' Chen, Sebastian Boring, Sheelagh Carpendale, Anthony Tang, Saul Greenberg. Spalendar: Spatially Visualizing Group's Calendar Activities as a Public Interactive Display. *Proc. AVI 2012*, 689-696.
- CAD/CG 2011 Bin Pan, **Xiang Chen**, Xiaoming Guo, Wei Chen, Qunsheng Peng. Interactive Expressive Illustration of 3D City Scene. *Proc. CAD/Graphics* 2011, 406-410.
 - MAGAZINE ARTICLES
- Jennifer Mankoff, Megan Hofmann, **Xiang 'Anthony' Chen**, Scott E. Hudson, Amy Hurst, Jeeeun Kim. Consumer-grade fabrication and its potential to revolutionize accessibility. *Comm. ACM*, 62(10), October 2019.

Workshop/Demo/Work-in-Progress/Poster/Consortium Papers

- UIST 2020 Eric Perez, James King, Yugo Watanabe, **Xiang 'Anthony' Chen**. Counterweight: Diversifying News Consumption. *ACM UIST 2020 Adjunct Demo*.
- IUI 2019 Benjamin Wagstaff, Chiao Lu, **Xiang 'Anthony' Chen**. Automatic Exam Grading By a Mobile Camera. ACM IUI 2019 Adjunct Demo.
- Yao Xie, Ge Gao, **Xiang 'Anthony' Chen**. Outlining the Design Space of Explainable Intelligent Systems for Medical Diagnosis. *ACM IUI 2019 Adjunct Worshop*.
- Ye Tao, Jianzhe Gu, Byoungkwon An, Tingyu Cheng, **Xiang 'Anthony' Chen**, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Teng Zhang, Lining Yao. Demonstrating Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces. *ACM CHI 2018 Adjunct Demo*.
- UIST 2016 Xiang 'Anthony' Chen. Making Fabrication Real. ACM UIST 2016 Adjunct Doctoral Consortium.
- TEI 2012 **Xiang 'Anthony' Chen**. Body-centric interaction with mobile devices. ACM TEI 2012 Adjunct Graduate Consortium.

Patents

- Yang Li, and **Xiang 'Anthony' Chen**. Cross-device interaction through user-demonstrated gestures. U.S. Patent 10,234,953, issued March 19, 2019.
- Gierad Laput, Christopher Harrison, and **Xiang 'Anthony' Chen**. Method of Fabricating Soft Fibers Using Fused Deposition Modeling. U.S. Patent Application 15/772,193, filed October 4, 2018.
- Tovi Grossman, **Xiang 'Anthony' Chen**, George Fitzmaurice. Techniques For Interacting With Wearable Devices. U.S. Patent 10,082,953, issued September 25, 2018.
- Tovi Grossman, Daniel Wigdor, George Fitzmaurice. Techniques For Interacting With Handheld Devices. U.S. Patent 20,150,153,928, issued June 4, 2015.
- Hrvoje Benko, **Xiang Chen**, and Kenneth Paul Hinckley. Motion and context sharing for penbased computing inputs." U.S. Patent 9,201,520, issued December 1, 2015.

Funding

- Xiang 'Anthony' Chen (Sole PI). ONR Young Investigator Award: Knowledge Extraction from Human Interaction with AI. \$510,000.
- 2021-2026 **Xiang 'Anthony' Chen** (Sole PI). NSF CAREER: Expanding the Interaction Bandwidth between Physicians and AI. \$548,111.
- Xiang 'Anthony' Chen (Sole PI). Hellman Fellowship: Enabling an Ecosystem of Human-Centered Medical AI. \$19,500.
- Xiang 'Anthony' Chen (Sole PI). NSF CRII: CHS: Techniques for Helping Domain Experts Understand and Improve Models Underlying Intelligent Systems. \$200,460.
- Xiang 'Anthony' Chen (Sole PI). Meta Technology Pte. Ltd. (Singapore) gift funding, \$5,000.
- Xiang 'Anthony' Chen (Sole PI). Adobe gift funding, \$7,500.

Press

PRIMARY RESEARCH PROJECTS

2021	Wall Street Journal. "Let's Redesign the Laptop for a Work-From-Home Era"
2019	New Scientists. "Turn any object into a robot using this program and a 3D printer"
2019	ACM TechNews. "Turn any object into a robot using this program and a 3D printer"
2019	Hackster.io. "Robiot Is a Design Tool That Generates Mechanisms to Motorize Everyday Objects"
2019	Innovation Cloud. "Innovation that will turn everyday objects into robots"
2019	Fabbaloo. "Robiot Can Automatically Design Handy Household Machines"
2018	3ders.org. "Forté: user-driven generative design tool for easy optimization of 3D printed objects"
2018	All ₃ DP. "Forté Lets you Draw in 2D, Creates 3D Generative Designs Automatically"
2018	3DShoes.com. "Forté Design Tool"
2018	FutureLab3D. "Forte: user-driven generative design tool for easy optimization of 3D printed objects"
2018	$_{ m 3D}$ Adept. "Forte, the generative design tool that will ease the optimization of $_{ m 3D}$ printed objects"
2018	3 dimensions.kr. "3D design software that makes your design look like: Forté" (Translated from Korean)
2018	STAMPARE IN 3D. "Anthony Chen e lo strumento di disegno interattivo Forté"
2016	Branchemagasinet UDKOM. "3D-printere reparerer ting"
2016	DIY 3D Printing. "Encore 3D Printing Upgrades for Everyday Objects"
2015	3dprint.com. "Sustainable 3D Printing Methods Add to or Subtract from Existing Objects"
2015	New Scientists. "3D print extra bits for old objects to help extend their life"
2015	3ders.org. "Researchers develop Encore tool for augmenting everyday objects with 3D printing"
2015	3dprint.com. "Encore: Research Allows for 3D Printed Augmentation of Everyday Objects"
2015	3dtectonix.com . "Encore Webgl-Based Tool and 3D Printing Improve Everyday Objects"
2014	labs.blogs.com. "Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch"
2013	sourcebits.com. "How an Innovative Mobile Interaction Concept Could Benefit Enterprises"
	Collaborated Research Projects
2018	Orecchio (collaborated with Xing-Dong Yang's group) EureAlert, Phys.Org, Dartmouth Press
2018	WrisText (collaborated with Xing-Dong Yang's group) Discovery's Daily Planet, QUARTZ, Weather Science, EureAlert
2018	Theromorph (collaborated with Lining Yao's group) CMU News, dezeen, ZDNet, ALL ₃ DP
2016	SweepSense (collaborated with Gierad Laput) R&D Magazine, MIT Technology Review
2016	Snap to It (collaborated with Adrian de Freitas)

2015	3D Printed Hair (collaborated with Gierad Laput) Fast Company, CNET, Gizmodo, Hackaday, MIT Technology Review, Engadget, Plastics Today, New York Magazine, etc.
2014	Skin Buttons (collaborated with Gierad Laput) New York Times, TechCrunch, WIRED, Fast Company, New Scientist, Gizmodo, CBC, etc.
2014	Tablet+Stylus Interaction (collaborated with Ken Hinckley) FastCo Design's #2 User Interface Innovation of 2014
2012	The Fat Thumb (collaborated with Sebastian Boring) PC World, Engadget, Gizmodo, etc.
	Talks
08/2020	Expanding the Interaction Bandwidth Between Human and AI Snap Research, U.S. (hosted by Rajan Vaish)
04/2020	Expanding the Interaction Bandwidth Between Human and AI Salesforce Research (hosted by Wenhao Liu)
01/2020	Expanding the Interaction Bandwidth Between Human and AI Media Arts and Technology Seminar, UC Santa Barbara
12/2019	Expanding the Interaction Bandwidth Between Human and AI Tsinghua University (hosted by Chun Yu) Peking University (hosted by Yizhou Wang) Fudan University (hosted by Tun Lu) Tongji University (hosted by Yang Shi) Sun Yat-Sen University South China University of Technology (hosted by C. L. Philip Chen) Xiamen University (hosted by Junfeng Yao)
08/2019	Designing Explainable Intelligent Systems the 5th Summer School on Computational Interaction, New York, U.S.
02/2018	Computational Tool Support for Mass Customization FXPAL, Palo Alto, U.S. (hosted by Daniel Avrahami)
05/2017	Computational Design and Fabrication to Augment Everyday Objects Dartmouth College, Hanover, U.S. (hosted by Xing-Dong Yang)
02/2016	Body-Centric Interaction with Mobile and Wearable Devices Body Hacking Con 2016, Austin, U.S.
12/2015	Enabling End-User Creativity with New Fabrication Techniques X-Studio, Tsinghua University, Beijing, China (hosted by Ying-Qing Xu)
10/2015	Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch Midwest UX 2015, Pittsburgh, U.S.
03/2015	Snap-to-It: Using Mobile Cameras To Opportunistically Connect ⊠ Interact With An Internet Of Things QualComm, San Diego, U.S.
08/2013	Motion and Context Sensing for Pen Computing

MIT Technology Review

by Daniel Vogel) Motion and Context Sensing for Pen Computing 05/2013 Dynamic Graphics Project, University of Toronto, Toronto, Canada (hosted by Daniel Wigdor) Motion and Context Sensing for Pen Computing 06/2013 Autodesk Research, Toronto, Canada (hosted by Tovi Grossman) **Around-Body Interaction** 05/2013 Hasso-Plattner-Institut, Berlin, Germany (hosted by Patrick Baudisch) **Around-Body Interaction** 03/2013 QualComm, San Diego, U.S. **Teaching and Mentoring** Course Instructor CS/ECE M119: Fundamental of Networked Embedded Systems. ECE Department, UCLA. 2019-present ECE 209AS: Human-Computer Interaction. ECE Department, UCLA. 2018-present ECE 188: Interactive Applied & Machine Leanring. ECE Department, UCLA. 2021-present TEACHING ASSISTANT 05430: Programming Usable Interfaces. School of Computer Science, Carnegie Mellon Uni-2015 versity. 05410: User-Centered Research and Evaluation. School of Computer Science, Carnegie Mel-2014 lon University. CPSC 481: Human Computer Interaction I. Department of Computer Science, University of 2010 Calgary. Ph.D. Students Mentored at UCLA Hongyan Gu. MS/Ph.D. ECE; Project: Human-AI Collaboration for Medical Diagnosis. 2018-present Jiahao Li. Ph.D. in MAE; Project: Augmenting Everyday Objects with Robotic Capabilities. 2018-present Ruolin Wang. Ph.D. ECE; Project: AI for Accessibility. 2019-present Xingyu Liu. Ph.D. ECE; Project: AI for Accessibility. 2020-present Noyan Evirgen. Ph.D. in ECE; Project: Interactive Generative AI. 2018-present Yuan Liang. Ph.D. in ECE; Project: Computer Vision for Medical Imaging. 2019-present **Sam Arlin**. Ph.D. in CS; Project: AI-enabled expressive writing . 2019-2020 M.S. STUDENTS MENTORED AT UCLA Electrical & Computer Engineering: Yifan Xu, Yao Xie, Yunpeng Ding, Carlo Rebanal, Amirali 2018-present

David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada (hosted

Omidfar, Ximeng Liu, Nicolas Cheng.

2018-present	Computer Science: Ritam Sarmah.
	Undergraduate Students Mentored at UCLA
2018-present	Electrical & Computer Engineering : Alexiy Samoylov, James King, Eric Perez, Alexander Chen, Jingbin Huang, Melody Chen, David Kao, Ben Wagstaff.
2018-present	Computer Science : Julia Ramos, Lizeth Vera, Todd Hartog, Grace Zhao, Zixuan Chen, Jordan Combitsis, Phipson Lee, Joseph Lu, Bey-Ru Hsu.
2018-present	Cognitive Science: Colleen Li, Brandon Ngo, Rita Dang, Marina Souliman, Claire Guo.
2018-present	Other Majors: Yumeng Zhuang, Wanxin Xie, Caitlin Lee.
2018-present	Interns, Visiting and Collaborative Students : Charisa Shin (Brown), Xiao Fan (CSST), Hsuanwei Fan (Tsinghua), Mina Huh (KAIST), Bowen Zhang (CSST).
	Mentoring During Ph.D. at CMU
2017	Runchang Kang. Master student in Architecture Project: Finite Element Analysis of post-processed generative designs (CHI '18, SUI '19).
2015	Vikram Kamath Cannanure. Master student in Learning Science Project: one-handed gesture for smart watches (GI '16).
2015	Yaakov Lyubetsky, Hyunsoo Andrew Park. Master students in HCI and Communication Design Project: learning from failed 3D prints.
	Service
	Ph.D. Thesis Committee
2021	Mahmoud Essalat, Electrical & Computer Engineering at UCLA
2020	Vikranth Jeyakumar, Electrical & Computer Engineering at UCLA
2020	Haisong Lin, Electrical & Computer Engineering at UCLA
2020	Migyeong Gwak, Computer Science at UCLA
2020	Weinan Song, Electrical & Computer Engineering at UCLA
	M.S. Thesis Committee
2021	Amirali Omidfar, Electrical $\mathring{\sigma}$ Computer Engineering at UCLA
2020	Akash Singh, Electrical & Computer Engineering at UCLA
	Pre-college Education
2020	Judge for International Science and Engineering Fair (for high school students)

EDITORIAL BOARD

2020 Proceedings of the ACM on Human-Computer Interaction ISS

PROGRAM COMMITTEE

ACM CHI Conference on Human Factors in Computing Systems (CHI)

ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)

ACM Symposium on User Interface Software and Technology (UIST)

ACM International Conference on Intelligent User Interfaces (IUI)

ACM International Conference on Interactive Surfaces and Spaces (ISS)

2018-19 International Symposium of Chinese CHI 2018-19

2016 ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work

Organizing Committee

UIST Doctoral Consortium Chair

2020 UIST Proceeding Chair

2019-20 ISS Publicity Chair

UCLA ECE Department Annual Research Review Co-Chair

REVIEWER

2012-present Human-Computer Interaction:

CHI '13-'18, UIST '13-'18, CSCW '14-'16, MobileHCI '13-'16, '20, TEI '13-'16, ISWC '15, Ubicomp '16, DIS '14 '18-'19, ITS '13-'15, GI '12-'13, '16, MUM '13, CHI PLAY '14, ToCHI '14 '18-'19, SUI '14-'15, IUI '15, TVX '15 '17, EICS '15, IDC '15, Pervasive Computing '16, '20, IJHCS '17, IMWUT '17-'18, IJHCI '18.

Computer Graphics:

SIGGRAPH '19, EuroGraphics '15, Computer & Graphics '18.

Others:

Accessibility '19, TMC '17, C&C '15, NPJ Digital Medicine '20.

2014-2016 * "SPECIAL RECOGNITIONS" AS A REVIEWER

CHI PLAY '14, CHI '15-'16, UIST '15-'16, Ubicomp '16.

Volunteer

TEI Student Volunteer

Three River Film Festival

2006-07 Crimson Summer Exchange, Crimson Chinese Culture Education Foundation

References

Scott Hudson

Professor

Human-Computer Interaction Institute, Carnegie Mellon University scott.hudson@cs.cmu.edu

Tovi Grossman

Assistant Professor Department of Computer Science, University of Toronto tovi@dgp.toronto.edu

Ken Hinckley

Senior Principal Research Manager Microsoft Research kenh@microsoft.com

Saul Greenberg

Professor Emeritus Department of Computer Science, University of Calgary saul.greenberg@ucalgary.ca

Yang Li

Staff Research Scientist Google Research yangli@acm.org