Xiang 'Anthony' Chen

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xac@ucla.edu https://xac.is

Last updated 6/10/2022

Current Position

2018 - Assistant Professor Department of Electrical & Computer Engineering

UCLA

2022 - Visiting Professor Department of Computer Science

University of Tokyo

2021 - Visiting Professor Salesforce Research

Education

2012 - 2017 Ph.D. Carnegie Mellon University

School of Computer Science

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

2010 - 2012 M.Sc. University of Calgary

Department of Computer Science

Committee: Barry Wylant and Larry Katz

2006 - 2010 B.Eng. Zhejiang University

Department of Computer Science Chu Kochen Honors College

2010 Universidad Politécnica de Madrid

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

2003 - 2006 Affiliated High School of South China Normal University

Innovation Class student in Science

Awards

2022	Google Research Scholar Award
2021	ONR Young Investigator Award
2021	NSF CAREER Award
2020	Hellman Fellowship
2020	CHI Best Paper Honorable Mention Award
2019	NSF CISE Research Initiation Initiative (CRII) Award
2018	CHI Best Paper Honorable Mention Award
2016	Adobe Research PhD Fellowship
2015	Qualcomm Innovation Fellowship Finalist
2014	UIST Best Paper Award
2014	CHI Best Paper Award

CHI Best Talk Award
Qualcomm Innovation Fellowship Finalist
University of Calgary Department Research Award
Academic Project Scholarships in Madrid-Spain for Chinese Technical Students
Zhejiang University Academic Scholarship
University of Hong Kong Crimson Summer Exchange Co-Fellowship

Professional Experience

2018	Research Scientist	Tableau Research, Palo Alto Enabling people to interact with data on mobile devices
2015	Research Intern	Google Research, Mountain View Mobile Interactive Computing Group with Yang Li Developed a user-defined cross-device interaction framework
2014	Research Intern	Microsoft Research, Redmond Natural Interaction Research Group with Bill Buxton and Ken Hinckley Developed a multi-wearable interactive system
2013	Research Intern	Autodesk Research, Toronto User Interface Research Group with Tovi Grossman, Daniel Wigdor, and George Fitzmaurice Developed interaction techniques with smart watches
2012	Research Intern	Microsoft Research, Redmond Natural Interaction Research Group with Ken Hinckley and Hrvoje Benko Developed motion and context sensing techniques for pen computing
2010	Research Intern	Microsoft Research Asia, Beijing Media Computing Group with Bin B. Zhu Developed novel CAPTCHA techniques and systems
2009	Engineering Intern	Alibaba Group, Hangzhou Quality Assurance Group Developed routines for testing data-centric web-based programs

	Publications	
2017	Dissertations/These Ph.D.	Making Fabrication Real: Fabrication for Real Usage, with Real Objects, by Real People Doctoral dissertation, Carnegie Mellon University
2012	M.Sc.	Body-Centric Interaction with a Screen-based Handheld Device Master's thesis, University of Calgary
2021	Book Chapters	Yuan Liang, Lei He, Xiang 'Anthony' Chen Human-Centered Al for Medical Imaging

In: Yang Li, Otmar Hilliges. (eds) Artificial Intelligence for Human Computer Interaction: A Modern Approach. Human–Computer Interaction Series. Springer, Cham.

	Conference & Jour	nal Paper
2022	IMWUT	Shoes+
		Zihan Ya
		Lingyun
		_

2022 CHI

2021 IUI

rs +: A Smart Detachable Sole for Social Foot-to-foot Interaction 'an, Jiayi Zhou, Yufei Wu, Guanhong Liu, Danli, Luo, Zihong Zhou, Haipeng Mi, n Sun, Xiang `Anthony' Chen, Ye Tao, Yang Zhang, Guanyun Wang Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies EmoGlass: an End-to-End Al-Enabled Wearable Platform for Enhancing Self-Awareness of Emotional Health. Zihan Yan, Yufei Wu, Yang Zhang, Xiang 'Anthony' Chen Proceedings of the CHI '22: CHI Conference on Human Factors in Computing Systems, New

Orleans, LA, USA, 29 April 2022, 2022

2022 CHI Roman: Making Everyday Objects Robotically Manipulable with 3D-Printable Add-on Mechanisms. Jiahao Li, Alexis Samoylov, Jeeeun Kim, Xiang 'Anthony' Chen

> Proceedings of the CHI '22: CHI Conference on Human Factors in Computing Systems, New Orleans, LA, USA, 29 April 2022, 2022

2022 CHI Mobiot: Augmenting Everyday Objects into Moving IoT Devices Using 3D Printed Attachments Generated by Demonstration. Abul Al Arabi, Jiahao Li, Xiang 'Anthony' Chen, Jeeeun Kim

> Proceedings of the CHI '22: CHI Conference on Human Factors in Computing Systems, New Orleans, LA, USA, 29 April 2022, 2022

2021 CSCW Lessons Learned from Designing an Al-Enabled Diagnosis Tool for Pathologists. Hongyan Gu, Jingbin Huang, Lauren Hung, Xiang 'Anthony' Chen Proc. ACM Hum. Comput. Interact., 2021

2021 TEI OmniSoft: A Design Tool for Soft Objects by Example.

Jeeeun Kim, Qingnan Zhou, Amanda Ghassaei, Xiang 'Anthony' Chen

Proceedings of the TEI '21: Fifteenth International Conference on Tangible, 2021

2021 IUI XAlgo: a Design Probe of Explaining Algorithms' Internal States via Question-Answering. Juan Carlo Rebanal, Jordan Combitsis, Yuqi Tang, Xiang 'Anthony' Chen

Proceedings of the IUI '21: 26th International Conference on Intelligent User Interfaces, 2021

Reconstruction from a 2D Panoramic X-ray.

Yuan Liang, Liang Qiu, Tiancheng Lu, Zhujun Fang, Dezhan Tu, Jiawei Yang, Yiting Shao,

OralViewer: 3D Demonstration of Dental Surgeries for Patient Education with Oral Cavity

Kun Wang, Xiang 'Anthony' Chen, Lei He

Proceedings of the IUI '21: 26th International Conference on Intelligent User Interfaces, 2021

2021 CHI Revamp: Enhancing Accessible Information Seeking Experience of Online Shopping for Blind or Low Vision Users.

Ruolin Wang, Zixuan Chen, Mingrui Ray Zhang, Zhaoheng Li, Zhixiu Liu, Zihan Dang, Chun

Yu, Xiang 'Anthony' Chen Proceedings of the CHI '21: CHI Conference on Human Factors in Computing Systems, 2021

2021 CHI What Makes Videos Accessible to Blind and Visually Impaired People?

Xingyu Liu, Patrick Carrington, Xiang 'Anthony' Chen, Amy Pavel

Proceedings of the CHI '21: CHI Conference on Human Factors in Computing Systems, 2021

2020	VRST	DualVib: Simulating Haptic Sensation of Dynamic Mass by Combining Pseudo-Force and Texture Feedback.
		Yudai Tanaka, Arata Horie, Xiang 'Anthony' Chen
		Proceedings of the VRST '20: 26th ACM Symposium on Virtual Reality Software and Technology, 2020
2020	UIST	Geno: A Developer Tool for Authoring Multimodal Interaction on Existing Web Applications.
		Ritam Jyoti Sarmah, Yunpeng Ding, Di Wang, Cheuk Yin Phipson Lee, Toby Jia-Jun Li, Xiang 'Anthony' Chen
		Proceedings of the UIST '20: The 33rd Annual ACM Symposium on User Interface Software and Technology, 2020
2020	UIST	Romeo: A Design Tool for Embedding Transformable Parts in 3D Models to Robotically Augment Default Functionalities.
		Jiahao Li, Meilin Cui, Jeeeun Kim, Xiang 'Anthony' Chen
		Proceedings of the UIST '20: The 33rd Annual ACM Symposium on User Interface Software and Technology, 2020
2020	СНІ	OralCam: Enabling Self-Examination and Awareness of Oral Health Using a Smartphone Camera.
		Yuan Liang, Hsuan-Wei Fan, Zhujun Fang, Leiying Miao, Wen Li, Xuan Zhang, Weibin Sun, Kun Wang, Lei He, Xiang Anthony Chen
		Proceedings of the CHI '20: CHI Conference on Human Factors in Computing Systems, 2020
		Best Paper Honorable Mention Award
2020	CHI	CheXplain: Enabling Physicians to Explore and Understand Data-Driven, Al-Enabled Medical Imaging Analysis.
		Yao Xie, Melody Chen, David Kao, Ge Gao, Xiang 'Anthony' Chen
		Proceedings of the CHI '20: CHI Conference on Human Factors in Computing Systems, 2020
2019	UIST	Robiot: A Design Tool for Actuating Everyday Objects with Automatically Generated 3D Printable Mechanisms.
		Jiahao Li, Jeeeun Kim, Xiang 'Anthony' Chen
		Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology, 2019
2019	SUI	Minuet: Multimodal Interaction with an Internet of Things.
		Runchang Kang, Anhong Guo, Gierad Laput, Yang Li, Xiang 'Anthony' Chen
		Proceedings of the Symposium on Spatial User Interaction, 2019
2018	UIST	Orecchio: Extending Body-Language through Actuated Static and Dynamic Auricular Postures.
		Da-Yuan Huang, Teddy Seyed, Linjun Li, Jun Gong, Zhihao Yao, Yuchen Jiao, Xiang 'Anthony' Chen, Xing-Dong Yang
		Proceedings of the 31st Annual ACM Symposium on User Interface Software and Technology, 2018
2018	CHI	WrisText: One-handed Text Entry on Smartwatch using Wrist Gestures.
		Jun Gong, Zheer Xu, Qifan Guo, Teddy Seyed, Xiang 'Anthony' Chen, Xiaojun Bi, Xing-Dong Yang
		Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems, 2018 Best Paper Honorable Mention Award
2018	CHI	Forte: User-Driven Generative Design.

		Xiang 'Anthony' Chen, Ye Tao, Guanyun Wang, Runchang Kang, Tovi Grossman, Stelian Coros, Scott E. Hudson Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems, 2018
2018	CHI	Medley: A Library of Embeddables to Explore Rich Material Properties for 3D Printed Objects. Xiang 'Anthony' Chen, Stelian Coros, Scott E. Hudson
		Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems, 2018
2018	CHI	Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces.
		Byoungkwon An, Ye Tao, Jianzhe Gu, Tingyu Cheng, Xiang 'Anthony' Chen, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Shigeo Takahashi, Hsiang-Yun Wu, Teng Zhang, Lining Yao
		Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems, 2018
2017	TOCHI	Improv: An Input Framework for Improvising Cross-Device Interaction by Demonstration.
		Xiang 'Anthony' Chen, Yang Li
		ACM Trans. Comput. Hum. Interact., 2017
2017	СНІ	Facade: Auto-generating Tactile Interfaces to Appliances.
		Anhong Guo, Jeeeun Kim, Xiang 'Anthony' Chen, Tom Yeh, Scott E. Hudson, Jennifer Mankoff, Jeffrey P. Bigham
		Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems, 2017
2016	UIST	VizLens: A Robust and Interactive Screen Reader for Interfaces in the Real World.
2010	0101	Anhong Guo, Xiang 'Anthony' Chen, Haoran Qi, Samuel White, Suman Ghosh, Chieko Asakawa, Jeffrey P. Bigham
		Proceedings of the 29th Annual Symposium on User Interface Software and Technology,
		2016
2016	UIST	Bootstrapping User-Defined Body Tapping Recognition with Offline-Learned Probabilistic Representation.
		Xiang 'Anthony' Chen, Yang Li
		Proceedings of the 29th Annual Symposium on User Interface Software and Technology, 2016
2016	UIST	Reprise: A Design Tool for Specifying, Generating, and Customizing 3D Printable Adaptations on Everyday Objects.
		Xiang 'Anthony' Chen, Jeeeun Kim, Jennifer Mankoff, Tovi Grossman, Stelian Coros, Scott E. Hudson
		Proceedings of the 29th Annual Symposium on User Interface Software and Technology, 2016
2016	IUI	SweepSense: Ad Hoc Configuration Sensing Using Reflected Swept-Frequency Ultrasonics.
		Gierad Laput, Xiang 'Anthony' Chen, Chris Harrison
		Proceedings of the 21st International Conference on Intelligent User Interfaces, 2016
2016	GI	Twist 'n' Knock: A One-handed Gesture for Smart Watches.
		Vikram Cannanure, Xiang 'Anthony' Chen, Jennifer Mankoff
		Proceedings of the 42nd Graphics Interface Conference, Victoria, BC, Canada, 1-3 June 2016, 2016
2016	CHI	Snap-To-It: A User-Inspired Platform for Opportunistic Device Interactions.
2010	OTT	Adrian A. de Freitas, Michael Nebeling, Xiang 'Anthony' Chen, Junrui Yang, Akshaye
		Shreenithi Kirupa Karthikeyan Ranithangam, Anind K. Dey
		Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems, 2016

2015	UIST	3D Printed Hair: Fused Deposition Modeling of Soft Strands, Fibers, and Bristles. Gierad Laput, Xiang 'Anthony' Chen, Chris Harrison Proceedings of the 28th Annual ACM Symposium on User Interface Software & Technology, 2015
2015	UIST	Encore: 3D Printed Augmentation of Everyday Objects with Printed-Over, Affixed and Interlocked Attachments. Xiang 'Anthony' Chen, Stelian Coros, Jennifer Mankoff, Scott E. Hudson Proceedings of the 28th Annual ACM Symposium on User Interface Software & Technology, 2015
2015	MobileHCI	Typing on Glasses: Adapting Text Entry to Smart Eyewear. Tovi Grossman, Xiang 'Anthony' Chen, George W. Fitzmaurice Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services, 2015
2014	UIST	Skin buttons: cheap, small, low-powered and clickable fixed-icon laser projectors. Gierad Laput, Robert Xiao, Xiang 'Anthony' Chen, Scott E. Hudson, Chris Harrison Proceedings of the 27th Annual ACM Symposium on User Interface Software and Technology, 2014
2014	UIST	Sensing techniques for tablet+stylus interaction. Ken Hinckley, Michel Pahud, Hrvoje Benko, Pourang Irani, François Guimbretière, Marcel Gavriliu, Xiang 'Anthony' Chen, Fabrice Matulic, William Buxton, Andrew Wilson Proceedings of the 27th Annual ACM Symposium on User Interface Software and Technology, 2014 Best Paper Award
2014	UIST	Air+touch: interweaving touch & in-air gestures. Xiang 'Anthony' Chen, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott E. Hudson Proceedings of the 27th Annual ACM Symposium on User Interface Software and Technology, 2014
2014	UIST	Swipeboard: a text entry technique for ultra-small interfaces that supports novice to expert transitions. Xiang 'Anthony' Chen, Tovi Grossman, George W. Fitzmaurice Proceedings of the 27th Annual ACM Symposium on User Interface Software and Technology, 2014
2014	MobileHCI	Around-body interaction: sensing & interaction techniques for proprioception-enhanced input with mobile devices. Xiang 'Anthony' Chen, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott E. Hudson Proceedings of the 16th international conference on Human-computer interaction with mobile devices & services, 2014
2014	СНІ	Duet: exploring joint interactions on a smart phone and a smart watch. Xiang 'Anthony' Chen, Tovi Grossman, Daniel J. Wigdor, George W. Fitzmaurice Proceedings of the CHI Conference on Human Factors in Computing Systems, 2014 Best Paper Award
2013	GI	Motion and context sensing techniques for pen computing. Ken Hinckley, Xiang 'Anthony' Chen, Hrvoje Benko Proceedings of the Graphics Interface 2013, 2013

2012 MobileHCI Extending a mobile device's interaction space through body-centric interaction. Xiang 'Anthony' Chen, Nicolai Marquardt, Anthony Tang, Sebastian Boring, Saul Greenberg Proceedings of the Mobile HCI '12, 2012 2012 MobileHCI The fat thumb: using the thumb's contact size for single-handed mobile interaction. Sebastian Boring, David Ledo, Xiang 'Anthony' Chen, Nicolai Marquardt, Anthony Tang, Saul Greenberg Proceedings of the Mobile HCI '12, 2012 2012 AVI Spalendar: visualizing a group's calendar events over a geographic space on a public Xiang 'Anthony' Chen, Sebastian Boring, Sheelagh Carpendale, Anthony Tang, Saul Greenberg Proceedings of the International Working Conference on Advanced Visual Interfaces, 2012 Magazine Articles 2019 CACM Consumer-grade fabrication and its potential to revolutionize accessibility. Jennifer Mankoff, Megan Hofmann, Xiang 'Anthony' Chen, Scott E. Hudson, Amy Hurst, Jeeeun Kim Commun. ACM, 2019 Workshop, Demo, Work-in-Progress, Poster, and Consortium Papers Counterweight: Diversifying News Consumption. 2020 UIST Eric Balagtas Perez, James King, Yugo H. Watanabe, Xiang 'Anthony' Chen Proceedings of the UIST '20 Adjunct: The 33rd Annual ACM Symposium on User Interface Software and Technology, 2020 2019 IUI Outlining the Design Space of Explainable Intelligent Systems for Medical Diagnosis. Yao Xie, Xiang 'Anthony' Chen, Ge Gao Proceedings of the Joint Proceedings of the ACM IUI 2019 Workshops co-located with the 24th ACM Conference on Intelligent User Interfaces (ACM IUI 2019), 2019 2019 IUI Automatic exam grading by a mobile camera: snap a picture to grade your tests. Benjamin Wagstaff, Chiao Lu, Xiang 'Anthony' Chen Proceedings of the 24th International Conference on Intelligent User Interfaces: Companion, 2019 2018 CHI Demonstrating Thermorph: Democratizing 4D Printing of Self-Folding Materials and Ye Tao, Jianzhe Gu, Byoungkwon An, Tingyu Cheng, Xiang 'Anthony' Chen, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Teng Zhang, Lining Yao Proceedings of the Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems, 2018 2016 TEI Making Fabrication Real. Xiang 'Anthony' Chen Proceedings of the 29th Annual Symposium on User Interface Software and Technology, 2016 2015 CHI ApplianceReader: A Wearable, Crowdsourced, Vision-based System to Make Appliances Accessible. Anhong Guo, Xiang 'Anthony' Chen, Jeffrey P. Bigham Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems, 2015

2012 TEI Body-centric interaction with mobile devices.

Xiang 'Anthony' Chen

Proceedings of the 6th International Conference on Tangible and Embedded Interaction

2012, 2012

Patents	
2022	Method of Fabricating Soft Fibers Using Fused Deposition Modeling Gierad Laput, Christopher Harrison, and Xiang 'Anthony' Chen U.S. Patent Application 15/772,193, issued filed April 5, 2022
2019	Cross-device interaction through user-demonstrated gestures Yang Li, and Xiang 'Anthony' Chen U.S. Patent 10,234,953, issued March 19, 2019
2018	Techniques For Interacting With Wearable Devices Tovi Grossman, Xiang 'Anthony' Chen, George Fitzmaurice U.S. Patent 10,082,953, issued September 25, 2018
2015	Techniques For Interacting With Handheld Devices Tovi Grossman, Daniel Wigdor, George Fitzmaurice U.S. Patent 20,150,153,928, issued June 4, 2015
2015	Motion and context sharing for pen-based computing inputs Hrvoje Benko, Xiang Chen, and Kenneth Paul Hinckley U.S. Patent 9,201,520, issued December 1, 2015.

Funding Total to-date: \$1,390,571 Google Research Scholar Award 2022 - 2023 \$60,000 Xiang 'Anthony' Chen (Sole PI) 2022 \$20,000 Adobe gift funding Xiang 'Anthony' Chen (Sole PI) ONR Young Investigator Award: Knowledge Extraction from Human Interaction with AI 2022 - 2025 \$510,000 Xiang 'Anthony' Chen (Sole PI) NSF CAREER: Expanding the Interaction Bandwidth between Physicians and AI 2021 - 2026 \$548,111 Xiang 'Anthony' Chen (Sole PI) 2021 \$19,500 Hellman Fellowship: Enabling an Ecosystem of Human-Centered Medical Al Xiang 'Anthony' Chen (Sole PI) Adobe gift funding 2021 \$20,000 Xiang 'Anthony' Chen (Sole PI) 2019 - 2021 \$200,460 Xiang 'Anthony' Chen (Sole PI)

NSF CRII: CHS: Techniques	for Helping Domain Experts	Understand and Improve Models

Underlying Intelligent Systems

2019 \$5,000 Meta Technology Pte. Ltd. (Singapore) gift funding

Xiang 'Anthony' Chen (Sole PI)

2019 \$7,500 Adobe gift funding

Xiang 'Anthony' Chen (Sole PI)

Press

2018

2018

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	Research Conducted or Led by Me		
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	All3DP	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	3D Adept	Forte, the generative design tool that will ease the optimization of 3D printed objects	
2018	3dimensions.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	Branchema- gasinet 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	
	Research collabora		
2018		Orecchio (collaborated with Xing-Dong Yang's group)	
		EureAlert, Phys.Org, Dartmouth Press	

Discovery's Daily Planet, QUARTZ, Weather Science, EureAlert

Theromorph (collaborated with Lining Yao's group)

WrisText (collaborated with Xing-Dong Yang's group)

CMU News, dezeen, ZDNet, ALL3DP

2016 SweepSense (collaborated with Gierad Laput)

R&D Magazine, MIT Technology Review

2016 Snap to It (collaborated with Adrian de Freitas)

MIT Technology Review

2015	3D Printed Hair (collaborated with Gierad Laput)
	Fast Company, CNET, Gizmodo, Hackaday, MIT Technology Review, Engadget, Plastics Today, New York Magazine
2014	Skin Buttons (collaborated with Gierad Laput)
	New York Times, TechCrunch, WIRED, Fast Company, New Scientist, Gizmodo, CBC
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	
2022	Expanding the Interaction Bandwidth Between Human and AI Center for Psychological Sciences at Zhejiang University. (hosted by Liezhong Ge)
2020	Expanding the Interaction Bandwidth Between Human and Al Snap Research, U.S. (hosted by Rajan Vaish)
2020	Expanding the Interaction Bandwidth Between Human and Al Salesforce Research (hosted by Wenhao Liu)
2020	Expanding the Interaction Bandwidth Between Human and Al Media Arts and Technology Seminar, UC Santa Barbara
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)
2019	Designing Explainable Intelligent Systems The 5th Summer School on Computational Interaction, New York, U.S.
2018	Computational Tool Support for Mass Customization FXPAL, Palo Alto, U.S. (hosted by Daniel Avrahami)
2017	Computational Design and Fabrication to Augment Everyday Objects Dartmouth College, Hanover, U.S. (hosted by Xing-Dong Yang)
2016	Body-Centric Interaction with Mobile and Wearable Devices Body Hacking Con 2016, Austin, U.S.
2015	Enabling End-User Creativity with New Fabrication Techniques X-Studio, Tsinghua University, Beijing, China (hosted by Ying-Qing Xu

2015	Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch Midwest UX 2015, Pittsburgh, U.S.
2015	Snap-to-It: Using Mobile Cameras To Opportunistically Connect & Interact With An Internet Of Things
	QualComm, San Diego, U.S
2013	Motion and Context Sensing for Pen Computing
	David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada (hosted by Daniel Vogel)
2013	Motion and Context Sensing for Pen Computing
	Dynamic Graphics Project, University of Toronto, Toronto, Canada (hosted by Daniel Wigdor)
2013	Motion and Context Sensing for Pen Computing
	Autodesk Research, Toronto, Canada (hosted by Tovi Grossman)
2013	Around-Body Interaction
	Hasso-Plattner-Institut, Berlin, Germany (hosted by Patrick Baudisch)
2013	Around-Body Interaction
	QualComm, San Diego, U.S.

Teaching and Mentoring

2020 -	Corse Instructor ECE 188	Interactive & Applied Machine Learning ECE Department, UCLA
2019 -	CS/ECE M119	Fundamental of Networked Embedded Systems ECE Department, UCLA
2018 -	ECE 209AS	Human-Computer Interaction ECE Department, UCLA
2015	05430	Teaching Assistant Programming Usable Interfaces School of Computer Science, Carnegie Mellon University
2014	05410	User-Centered Research and Evaluation School of Computer Science, Carnegie Mellon University
2010	CPSC 481	Human Computer Interaction I Department of Computer Science, University of Calgary
	Ph.D. Students Me	ntored at UCLA
2022 -	Youngseung Jeon	Al-Enabled Creativity Support Tools
2020 -	Xingyu Liu	Augmenting Human Activities with Proactive AI ECE Distinguished Master Thesis Award
2019 -	Ruolin Wang	Making Information Accessible to Break the Cycle of Exclusion in Society
2019 -	Noyan Evirgen	Human-Centered, Interactive Generative AI
2018 -	Hongyan Gu	Supporting Diagnosis of Pathologists with Human-Al Collaboration

2018 - Jiahao Li Making Physical Objects Interactive with Low-cost Sensing and Robotic Augmentation

Master Students Mentored at UCLA

2018 - Wayne Zhang Crowd-powered accessibile online videos

Roy Jara Al-enabled expressive writing

Yifan Xu Human-Al collaboration for pathology Yao Xie Explainable Al-enabled radiology

Yunpeng Ding Explaining algorithms using question-answering

Ritam Sarmah Programming tools for voice input

Carlo Rebanal Explaining algorithms using question-answering

Amirali Omidfar Finger-worn camera interaction with IoTs
Ximeng Liu Finger-worn camera interaction with IoTs
Nicolas Cheng Finger-worn camera interaction with IoTs

Undergraduate Students Mentored at UCLA

2018 - Alexiy Samoylov Making everyday objects more manipulable by robots

James King Diversifying news consumption
Eric Perez Diversifying news consumption
Jingbin Huang Human-Al collaboration for pathology
Melody Chen Explainable Al-enabled radiology
David Kao Explainable Al-enabled radiology

Ben Wagstaf Automatic exam grading using a mobile camera

Joseph Lu Automatic exam grading using a mobile camera

Zixuan Chen Making online products visually accessible to blind people

Jordan Combitsis Explaining algorithms using question-answering Phipson Lee Explaining algorithms using question-answering

Intern & Visiting Students Mentored at UCLA

2019 - Zihan Yan Wearable sensing of emotional states

Hsuan-wei Fan Detecting oral diseases with a mobile camera
Mina Huh Making video editing accessible to blind people

Xiao Fan Low-cost sensor-equipped stethoscope
Bowen Zhang Physical therapy using a webcam

Students Mentored During Ph.D. Study at CMU

2015 - 2017 Runchang Kang User-driven generative design

Vikram Cannanure Knocking gestures for smart watches

Service

Ph.D. Thesis Committee (other than my students)

2020 - Tonmoy Monsoor ECE Department, UCLA
Mahmoud Essalat ECE Department, UCLA

Vikranth Jeyakumar ECE Department, UCLA
Haisong Lin ECE Department, UCLA
Migyeong Gwak CS Department, UCLA
Weinan Song ECE Department, UCLA

M.S. Thesis Committee

2020 - Oyku Bozkurt ECE Department, UCLA

		Siyou Pei	ECE Department, UCLA
		Swapnil S. Saha	ECE Department, UCLA
		Amirali Omidfar	ECE Department, UCLA
		Akash Singh	ECE Department, UCLA
		Pre-college Educat	ion
	2020	-	Judge for International Science and Engineering Fair (for high school students)
		Review Panel	
2021 -		National Science F	oundation
		Editorial Board	
	2020		Proceedings of the ACM on Human-Computer Interaction
	2020	100	1 roccedings of the Aow of Human-Computer interaction
		Dragram Cammitta	_
0040	0000	Program Committe	
	2023		ACM CHI Conference on Human Factors in Computing Systems
		CSCW	ACM Conference on Computer-Supported Cooperative Work and Social Computing
2019 -	2021		ACM Symposium on User Interface Software and Technology
	2019	IUI	ACM International Conference on Intelligent User Interfaces
	2018	ISS	ACM International Conference on Interactive Surfaces and Spaces
2018 -	2019	ChineseCHI	International Symposium of Chinese CHI
	2016	CHI LBW	ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work
		Organizing Commi	ttee
	2021	UIST	Doctoral Consortium Chair
	2020	UIST	Proceeding Chair
2019 -	2020	ISS	Publicity Chair
		ECE ARR	UCLA ECE Department Annual Research Review Co-Chair
		External Reviewer	
2013 -	2018		ACM CHI Conference on Human Factors in Computing Systems
	2018		ACM Symposium on User Interface Software and Technology
2013 -	2010	UIST	ACM Symposium on oser interface software and reclinology
2011		CCCM	ACM Conference on Computer Supported Connective Work and Social Computing
2014 -		CSCW	ACM Conference on Computer-Supported Cooperative Work and Social Computing
		TOCHI	ACM Transactions on Computer-Human Interaction
2018 -			
		SIGGRAPH	International Conference on Computer Graphics and Interactive Techniques
2013 -	2016	MobileHCI	International Conference On Human-Computer Interaction With Mobile Devices & Services
	2020		
2013 -	2016	TEI	ACM International Conference on Tangible, Embedded and Embodied Interaction
	2015	ISWC	ACM International Symposium on Wearable Computers
	2016	Ubicomp	ACM International Joint Conference on Pervasive and Ubiquitous Computing
2017 -	2018	IMWUT	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies
	2014	DIS	ACM SIGCHI Conference on Designing Interactive Systems
2018 -	2019		
2013 -	2015	ITS	ACM International Conference on Interactive Tabletops and Surfaces
	2013		Annual Conference on Graphics Interface
2012	2016	O .	Tanitual Comoronico on Crupinos interiuse
		NALINA	International Conference on Mobile and Ubiquitous Multimedia
		MUM	·
0044		CHI PLAY	Annual Symposium on Computer-Human Interaction in Play
	2015		ACM Symposium on Spatial User Interaction
2014 -	2015	IUI	ACM International Conference on Intelligent User Interfaces

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2015	TVX	ACM International Conference on Interactive Media Experiences
2017		
2015	EICS	ACM SIGCHI Symposium on Engineering Interactive Computing Systems
2015	IDC	Interaction Design and Children Conference
2016		IEEE Pervasive Computing
2020		
2017	IJHCS	International Journal of Human-Computer Studies
2021		
2018	IJHCI	International Journal of Human–Computer Interaction
2015	EuroGraphics	Annual Conference of the European Association for Computer Graphics
2018	C&G	Computers & Graphics
2019	AT	Assistive Technology
2017	TMC	IEEE Transactions on Mobile Computing
2015	C&C	ACM Conference on Creativity & Cognition

Special Recognition as a Reviewer

2020 NPJ

2015 - 2016 CHI	ACM CHI Conference on Human Factors in Computing Systems
2015 - 2016 UIST	ACM Symposium on User Interface Software and Technology

NPJ Digital Medicine

2016 Ubicomp ACM International Joint Conference on Pervasive and Ubiquitous Computing

2014 CHI PLAY Annual Symposium on Computer-Human Interaction in Play