Xiang 'Anthony' Chen

6730A Boelter Hall, UCLA. Los Angeles, CA 90095 USA

xac@ucla.edu

https://xac.is

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Current	Position
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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
2014	CHI Best Talk Award
2013	Qualcomm Innovation Fellowship

ip 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 - 2008 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

Publications

Dissertations/These

2017	q	Making Fabrication Real: Fabrication for Real Usage, with Real Objects, by Real People
		Doctoral dissertation, Carnegie Mellon University

Developed routines for testing data-centric web-based programs

Body-Centric Interaction with a Screen-based Handheld Device 2012 M.Sc. Master's thesis, University of Calgary

Book Chapters

2021 Yuan Liang, Lei He, Xiang 'Anthony' Chen

Human-Centered AI 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 & Journal Papers

2022 CHI 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

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

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

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

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

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

Reconstruction from a 2D Panoramic X-ray.

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

Shao, Kun Wang, Xiang 'Anthony' Chen, Lei He

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

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

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

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

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

CHI 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

CHI CheXplain: Enabling Physicians to Explore and Understand Data-Driven, AI-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

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

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

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

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,

2017 TOCHI Improv: An Input Framework for Improvising Cross-Device Interaction by Demonstration.

Xiang 'Anthony' Chen, Yang Li

ACM Trans. Comput. Hum. Interact., 2017

CHI 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.

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

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

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

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

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

CHI Snap-To-It: A User-Inspired Platform for Opportunistic Device Interactions.

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

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

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

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

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

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

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

CHI 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

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

AVI Spalendar: visualizing a group's calendar events over a geographic space on a public

display.

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

2020 UIST Counterweight: Diversifying News Consumption.

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 Interfaces. 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

2012, 2012

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

	tents
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
2022 - 2023	\$60,000	Google Research Scholar Award
		Xiang 'Anthony' Chen (Sole PI)
2022	\$20,000	Adobe gift funding
		Xiang 'Anthony' Chen (Sole PI)
2022 - 2025	\$510,000	ONR Young Investigator Award: Knowledge Extraction from Human Interaction with Al Xiang 'Anthony' Chen (Sole PI)
		Many Antiony Orien (Oole 11)
2021 - 2026	\$548,111	NSF CAREER: Expanding the Interaction Bandwidth between Physicians and Al
		Xiang 'Anthony' Chen (Sole PI)
2021	\$19,500	Hellman Fellowship: Enabling an Ecosystem of Human-Centered Medical Al
		Xiang 'Anthony' Chen (Sole PI)
2021	\$20,000	Adobe gift funding
		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
_0.0	4 5,555	Xiang 'Anthony' Chen (Sole PI)
2019	\$7,500	Adobe gift funding
		Xiang 'Anthony' Chen (Sole PI)

Press

2015 3dprint.com

	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	

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	ted with others
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, ALL3DP
2016		SweepSense (collaborated with Gierad Laput)
		R&D Magazine, MIT Technology Review
2012		
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)
2011		New York Times, TechCrunch, WIRED, Fast Company, New Scientist, Gizmodo, CBC
		μ. γ,,,
2014		Tablet+Stylus Interaction (collaborated with Ken Hinckley)
		FastCo Design's #2 User Interface Innovation of 2014
2012		The Eat Thumb (collaborated with Schooties Perios)
2012		The Fat Thumb (collaborated with Sebastian Boring) PC World, Engadget, Gizmodo, etc.
		1 O Wond, Engauget, Oizmoue, etc.

Center for Psychological Sciences at Zhejiang University. (hosted by Liezhong Ge)

2020 Expanding the Interaction Bandwidth Between Human and AI Snap Research, U.S. (hosted by Rajan Vaish) Expanding the Interaction Bandwidth Between Human and Al 2020

Talks

2022

Expanding the Interaction Bandwidth Between Human and AI

Salesforce Research (hosted by Wenhao Liu)

Expanding the Interaction Bandwidth Between Human and Al 2020

Media Arts and Technology Seminar, UC Santa Barbara

2019	Expanding the Interaction Bandwidth Between Human and Al 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 Mer	ntored at UCLA
2022 -		Youngseung Jeon	Al-Enabled Creativity Support Tools
2020 -		Xingyu Liu	Augmenting Human Activities with Proactive Al
			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 Al
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 Me	entored 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 Stud	dents 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

Steve Mendoza ECE Department, UCLA
Siyou Pei ECE Department, UCLA
Swapnil S. Saha ECE Department, UCLA
Amirali Omidfar ECE Department, UCLA
ECE Department, UCLA
ECE Department, UCLA

Pre-college Education

2020 Judge for International Science and Engineering Fair (for high school students)

Review Panel

2021 - National Science Foundation

Editorial Board

2020 ISS Proceedings of the ACM on Human-Computer Interaction

Program Committe

2019 - 2022 CHI ACM CHI Conference on Human Factors in Computing Systems

2021 - 2022 CSCW ACM Conference on Computer-Supported Cooperative Work and Social Computing

2019 - 2021 UIST 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 Commit	ree
2021	UIST	Doctoral Consortium Chair
2020	UIST	Proceeding Chair
2019 - 2020	ISS	Publicity Chair
2020	ECE ARR	UCLA ECE Department Annual Research Review Co-Chair
	External Reviewer	
2013 - 2018	CHI	ACM CHI Conference on Human Factors in Computing Systems
2013 - 2018	UIST	ACM Symposium on User Interface Software and Technology
2022		
2014 - 2016	CSCW	ACM Conference on Computer-Supported Cooperative Work and Social Computing
2014	TOCHI	ACM Transactions on Computer-Human Interaction
2018 - 2019		
2019	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
2012 - 2013	GI	Annual Conference on Graphics Interface
2016		
2013	MUM	International Conference on Mobile and Ubiquitous Multimedia
	CHI PLAY	Annual Symposium on Computer-Human Interaction in Play
2014 - 2015		ACM Symposium on Spatial User Interaction
2014 - 2015	IUI	ACM International Conference on Intelligent User Interfaces
2015	TVX	ACM International Conference on Interactive Media Experiences
2017		
	EICS	ACM SIGCHI Symposium on Engineering Interactive Computing Systems
	IDC	Interaction Design and Children Conference
2016		IEEE Pervasive Computing
2020		
	IJHCS	International Journal of Human-Computer Studies
2021		
	IJHCI	International Journal of Human–Computer Interaction
	EuroGraphics	Annual Conference of the European Association for Computer Graphics
2018		Computers & Graphics
2019		Assistive Technology
2017		IEEE Transactions on Mobile Computing
2015		ACM Conference on Creativity & Cognition
2020	NPJ	NPJ Digital Medicine
	Special Recognition	on as a Reviewer
2015 - 2016	CHI	ACM CHI Conference on Human Factors in Computing Systems
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ACM Symposium on User Interface Software and Technology

2015 - 2016 UIST

2016 Ubicomp ACM International Joint Conference on Pervasive and Ubiquitous Computing
2014 CHI PLAY Annual Symposium on Computer-Human Interaction in Play