Xiang 'Anthony' Chen

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Last updated 10/11/2022

Current Position

2018 -Assistant Professor Department of Electrical & Computer Engineering

UCLA

2022 - 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

Advisors: Saul Greenberg and Richard Levy 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	UIST Best Paper Award
2022	Intel Rising Star Award
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 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 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 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.

2022 EMNLP Discord Questions: A Computational Approach To Diversity Analysis in News Coverage

Philippe Laban, Chien-Sheng Wu, Lidiya Murakhovs'ka, Xiang 'Anthony' Chen,

Caiming Xiong

Proceedings of the Findings of the Association for Computational Linguistics: EMNLP 2022,

2021

2022 UIST GANzilla: User-Driven Direction Discovery in Generative Adversarial Networks

Noyan Evirgen, Xiang 'Anthony' Chen

Proceedings of the UIST '22: The 35rd Annual ACM Symposium on User Interface Software

and Technology, 2022

2022 UIST CrossA11y: Identifying Video Accessibility Issues via Cross-modal Grounding

Xingyu "Bruce" Liu, Ruolin Wang, Dingzeyu Li, Xiang 'Anthony' Chen, Amy Pavel

Proceedings of the UIST '22: The 35rd Annual ACM Symposium on User Interface Software

and Technology, 2022

Best Paper Award

2022 IMWUT Shoes++: A Smart Detachable Sole for Social Foot-to-foot Interaction

Zihan Yan, Jiayi Zhou, Yufei Wu, Guanhong Liu, Danli, Luo, Zihong Zhou, Haipeng Mi,

Lingyun Sun, Xiang 'Anthony' Chen, Ye Tao, Yang Zhang, Guanyun Wang

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

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

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 AI-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
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
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	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
2020	СНІ	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	СНІ	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	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
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.
		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
2013	Visual Computer	Perception-motivated visualization for 3D city scenes Bin Pan, Yong Zhao, Xiaoming Guo, Xiang Chen, Wei Chen, Qunsheng Peng The Visual Computer. 29.4 (2013): 277-286
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
2011	CAD/CG	Interactive Expressive Illustration of 3D City Scene Bin Pan, Xiang Chen, Xiaoming Guo, Wei Chen, Qunsheng Peng Proc. CAD/Graphics 2011
	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
2020	Workshop, Demo, V UIST	Work-in-Progress, Poster, and Consortium Papers 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

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

2022 - 2023	Total to-date: \$50,000	\$1,440,571 Intel Rising Star Award Xiang 'Anthony' Chen (Sole PI)
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)
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 Xiang 'Anthony' Chen (Sole PI)
2019	\$7,500	Adobe gift funding Xiang 'Anthony' Chen (Sole PI)

Press

Research	Conducted	or Led by Me
1 LUSUALUI	COHUUCICU	OI LCU DV IVIC

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)

	STAMPARE IN 3D Branchema- gasinet UDKOM.	Anthony Chen e lo strumento di disegno interattivo Forté 3D-printere reparerer ting
2015 2015	DIY 3D Printing 3dprint.com New Scientists	Encore 3D Printing Upgrades for Everyday Objects Sustainable 3D Printing Methods Add to or Subtract from Existing Objects 3D print extra bits for old objects to help extend their life
2015 2015 2015	3ders.org 3dprint.com 3dtectonix.com	Researchers develop Encore tool for augmenting everyday objects with 3D printing Encore: Research Allows for 3D Printed Augmentation of Everyday Objects Encore Webgl-Based Tool and 3D Printing Improve Everyday Objects
2014	labs.blogs.com sourcebits.com	Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch How an Innovative Mobile Interaction Concept Could Benefit Enterprises
	Research Collabora	ated 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
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.

2022 Thriving in an Information-Rich World through Human-AI Collaboration Department of Computer Science, University of Tokyo (hosted by Takeo Igarashi) Future University Hakodate (hosted by Hironari Yoshida)

2022 Expanding the Interaction Bandwidth Between Human and Al
Center for Psychological Sciences at Zhejiang University (hosted by Liezhong Ge)

2020 Expanding the Interaction Bandwidth Between Human and Al

Talks

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

Jingbin Huang

Melody Chen

Corse Instructor 2020 -**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 Teaching Assistant 2015 05430 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 Mentored at UCLA Youngseung Jeon Al-Enabled Creativity Support Tools 2022 -2020 -Xingyu Liu Augmenting Human Activities with Proactive AI 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 -Human-Al Systems for Video Accessibility Xingyu Liu **UCLA ECE Distinguished Master's Thesis Research Award** 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

Human-Al collaboration for pathology

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

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
Akash Singh 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 Committee

2019 - 2023 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

2040 2040	Chinasa Cl II	International Commonium of Chinago CIII				
	ChineseCHI	International Symposium of Chinese CHI				
2016	CHI LBW	ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work				
	Overanizina Committoe					
2021	Organizing Commit	Doctoral Consortium Chair				
	UIST	Proceeding Chair				
2020		Publicity Chair				
	ECE ARR	UCLA ECE Department Annual Research Review Co-Chair				
2020	EUE ARK	OCLA ECE Department Annual Research Review Co-Chair				
	External Reviewer					
2013 - 2018	CHI	ACM CHI Conference on Human Factors in Computing Systems				
2013 - 2022		ACM Symposium on User Interface Software and Technology				
2014 - 2016		ACM Conference on Computer-Supported Cooperative Work and Social Computing				
2014 - 2019		ACM Transactions on Computer-Human Interaction				
	SIGGRAPH	International Conference on Computer Graphics and Interactive Techniques				
2013 - 2020		International Conference On Human-Computer Interaction With Mobile Devices & Services				
2013 - 2016		ACM International Conference on Tangible, Embedded and Embodied Interaction				
	ISWC	ACM International Symposium on Wearable Computers				
	Ubicomp	ACM International Joint Conference on Pervasive and Ubiquitous Computing				
2017 - 2018	·	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies				
2014 - 2019		ACM SIGCHI Conference on Designing Interactive Systems				
2013 - 2015		ACM International Conference on Interactive Tabletops and Surfaces				
2012 - 2016		Annual Conference on Graphics Interface				
	MUM	International Conference on Mobile and Ubiquitous Multimedia				
	CHI PLAY	Annual Symposium on Computer-Human Interaction in Play				
2014 - 2015	SUI	ACM Symposium on Spatial User Interaction				
2014 - 2015		ACM International Conference on Intelligent User Interfaces				
2015 - 2017		ACM International Conference on Interactive Media Experiences				
2015	EICS	ACM SIGCHI Symposium on Engineering Interactive Computing Systems				
2015	IDC	Interaction Design and Children Conference				
2016 - 2020		IEEE Pervasive Computing				
2017 - 2021	IJHCS	International Journal of Human-Computer Studies				
2018	IJHCI	International Journal of Human–Computer Interaction				
2015	EuroGraphics	Annual Conference of the European Association for Computer Graphics				
	C&G	Computers & Graphics				
2019	AT	Assistive Technology				
2017	TMC	IEEE Transactions on Mobile Computing				
2015	C&C	ACM Conference on Creativity & Cognition				
2020		NPJ Digital Medicine				
	Special Recognition					
2015 - 2016		ACM CHI Conference on Human Factors in Computing Systems				
2015 - 2016		ACM Symposium on User Interface Software and Technology				
	Ubicomp	ACM International Joint Conference on Pervasive and Ubiquitous Computing				
2014	CHI PLAY	Annual Symposium on Computer-Human Interaction in Play				