Xiang 'Anthony' Chen

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Last updated 5/12/2023

Current Position

2018 - Assistant Department of Electrical & Computer Engineering

Professor UCLA

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

2023	CHI Best Paper Honorable Mention Award
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

2021 - 2023	Visiting Professor	Salesforce Research Collaborated on multiple HCI + NLP projects
2022	Visiting Professor	Department of Computer Science University of Tokyo Collaborated with Prof. Takeo Igarashi's research group
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

Conference & Journal Publications

		& Journal Papers
	Summary	CHI: 19; UIST: 15; TOCHI: 2; CSCW: 1; IMWUT: 1; Other venues: 16
2023	MobileHCI	NaCanva: Exploring and Enabling the Nature-Inspired Creativity for Children Zihan Yan, Yanhong Wu, Danli Luo, Chao Zhang, Qihang Jin, Wei Chen, Yingcai Wu, Xiang 'Anthony' Chen, Guanyun Wang, Haipeng Mi To appear at MobileHCI '23
2023	GI	RelRoll: A Relative Elicitation Mechanism for Scoring Annotation with A Case Study on Speech Emotion Yijun Zhou, JinHong Lu, Xiang 'Anthony' Chen, Chia-Ming Chang, Takeo Igarashi To appear at Graphics Interface '23
2023	СНІ	Augmenting Pathologists with NaviPath: Design and Evaluation of a Human-Al Collaborative Navigation System Hongyan Gu, Chunxu Yang, Mohammad Haeri, Jing Wang, Shirley Tang, Wenzhong Yan, Shujin He, Christopher Kazu Williams, Shino Magaki, Xiang 'Anthony' Chen To appear at CHI '23. Best Paper Honorable Mention Award
2023	CHI	AVscript: Accessible Video Editing with Audio-Visual Scripts Mina Huh, Saelyne Yang, Yi-Hao Peng, Xiang 'Anthony' Chen, Young-Ho Kim, Amy Pavel To appear at CHI '23.
2023	CHI	Visual Captions: Augmenting Verbal Communication with On-the-fly Visuals Xingyu "Bruce" Liu, Vladimir Kirilyuk, Xiuxiu Yuan, Alex Olwal, Peggy Chi, Xiang 'Anthony' Chen, Ruofei Du To appear at CHI '23.
2023	CHI	Designing and Evaluating Interfaces that Highlight News Coverage Diversity Using Discord Questions Philippe Laban, Chien-Sheng Wu, Lidiya Murakhovs'ka, Xiang 'Anthony' Chen, Caiming Xiong To appear at CHI '23.
2023	CHI	GANravel: User-Driven Direction Disentanglement in Generative Adversarial Networks Noyan Evirgen, Xiang 'Anthony' Chen To appear at CHI '23.
2022	TOCHI	Improving Workflow Integration with xPath: Design and Evaluation of a Human-Al Diagnosis System in Pathology Hongyan Gu, Yuan Liang, Yifan Xu, Christopher Kazu Williams, Shino Magaki, Negar Khanlou, Harry Vinters, Zesheng Chen, Shuo Ni, Chunxu Yang, Wenzhong Yan, Xinhai Robert Zhang, Mohammad Haeri, Xiang 'Anthony' Chen ACM Trans. Comput. Hum. Interact., 2022
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
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	СНІ	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	СНІ	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
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	СНІ	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	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	СНІ	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	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
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

Other Publications

Dissertations/These

2017 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

Book Chapters

2021 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.

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

2023 CHI ChatGPT for Moderating Customer Inquiries and Responses to Alleviate Stress and Reduce Emotional

Dissonance of Customer Service Representatives

Hyung-Kwon Ko, Kihoon Son, Hyoungwook Jin, Yoonseo Choi, Xiang 'Anthony' Chen

CHI Gen-Al workshop 2023

2023 CHI A Field Study on Pedestrians' Thoughts toward a Car with Gazing Eyes

Xinyue Gui, Koki Toda, Stela H. Seo, Felix Martin Eckert, Chia-Ming Chang, Xiang 'Anthony' Chen,

Takeo Igarashi

Proceedings of the Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing

Systems, 2018

2022 MICCAI Detecting Mitoses with a Convolutional Neural Network for MIDOG 2022 Challenge

Hongyan Gu, Mohammad Haeri, Shuo Ni, Christopher Kazu Williams, Neda Zarrin-Khameh, Shino

Magaki, Xiang 'Anthony' Chen

MIDOG 2022 Workshop of MICCAI 2022

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
Proceedings of the 6th International Conference on Tangible and Embedded Interaction 2012, 2012

Patents

- 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
- Cross-device interaction through user-demonstrated gestures
 Yang Li, and Xiang 'Anthony' Chen
 U.S. Patent 10,234,953, issued March 19, 2019
- Techniques For Interacting With Wearable Devices
 Tovi Grossman, Xiang 'Anthony' Chen, George Fitzmaurice
 U.S. Patent 10,082,953, issued September 25, 2018
- Z015 Techniques For Interacting With Handheld Devices
 Tovi Grossman, Xiang 'Anthony' Chen, George Fitzmaurice
 U.S. Patent 20,150,153,928, issued June 4, 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.

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	Total to-date:	\$1,460,571
2023	\$20,000	Salesforce gift funding Xiang 'Anthony' Chen (Sole PI)
2022 - 2023	\$50,000	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 Conducte	ed 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	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
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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
		Tone Tone Timos, Toonoration, Times, Fast Company, New Colonias, Cisimous, Cisi
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.

Idiks	
2023	Al-in-the-Loop: Catalyzing Advances in Al to Augment Human Activities Keynote, ICML 2023 Workshop: Artificial Intelligence & Human Computer Interaction
2023	Human-Al Collaborative Systems for the Future of Work Intel (hosted by Scott Buck)
2022	Thriving in an Information-Rich World through Human-Al 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 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 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)

Talks

- 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

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		Corse Instructor	
2023 -		Capstone Project	Master of Engineering
		,	School of Engineering, UCLA
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
			LOL Department, OCLA
		Teaching Assistant	
2	2015	05430	Programming Usable Interfaces
			School of Computer Science, Carnegie Mellon University
,	2014	05440	User-Centered Research and Evaluation
4	2014	05410	School of Computer Science, Carnegie Mellon University
2	2010	CPSC 481	Human Computer Interaction I
			Department of Computer Science, University of Calgary
		Ph.D. Students Mei	ptored at LICLA
2022 -		Youngseung Jeon	Al-Enabled Creativity Support Tools
2020 -		Xingyu Liu	Augmenting Human Activities with Proactive Al
2019 -		Ruolin Wang	Making Information Accessible to Break the Cycle of Exclusion in Society
2019 -		•	Human-Centered, Interactive Generative AI
2019 -		Noyan Evirgen	,
2018 -		Hongyan Gu Jiahao Li	Supporting Diagnosis of Pathologists with Human-Al Collaboration
2010 -		Jialiao Li	Making Physical Objects Interactive with Low-cost Sensing and Robotic Augmentation
2018 -		Master Students Me	entored at LICLA
2010		Rikako Hatoya	Al-augmented human commiunication
		Xingyu Liu	Human-Al Systems for Video Accessibility
		Alligya Lia	UCLA School of Engineering ED Rice Outstanding Master Student Award
			UCLA ECE Distinguished Master's Thesis Research Award
		10/2002 7/2002	Ones and a second association or time stide on
		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
2018 -		Undergraduate Stu	dents Mentored at UCLA
2010 -		Faustine Wang	Human-Al storytelling
		Ivy Kang	Al-assisted meetings
			Reading long texts as short tweets
		David Xiong	Making everyday objects more manipulable by robots
		Alexiy Samoylov	Diversifying news consumption
		James King	Diversifying news consumption

Diversifying news consumption

Eric Perez

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

2019 - Intern & Visiting Students Mentored at UCLA

Naoto Nishida Al-augmented human commiunication
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

2015 - 2017 Students Mentored During Ph.D. Study at CMU

Runchang Kang User-driven generative design
Vikram Cannanure Knocking gestures for smart watches

Service			
	Ph.D. Thesis Comn	nittee (other than my students)	
2020 -	Jeffrey Jiang	ECE Department, UCLA	
	Tonmoy Monsoor	ECE Department, UCLA	
	Mahmoud Essalat	ECE Department, UCLA	
	Vikranth Jeyakuma	r 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	
	Akash Singh	ECE Department, UCLA	
	Pre-college Educati	ion	
202	20	Judge for International Science and Engineering Fair (for high school students)	
	Review Panel		
202	23 Andy Hill CARE Fui	nd	
2021 - 202	22 National Science Fo	pundation	
	Editorial Board		
202	20 ISS	Proceedings of the ACM on Human-Computer Interaction	
	Program Committee		
2019 - 202	23 CHI	ACM CHI Conference on Human Factors in Computing Systems	
2021 - 202	22 CSCW	ACM Conference on Computer-Supported Cooperative Work and Social Computing	
2019 - 202	21 UIST	ACM Symposium on User Interface Software and Technology	
20	19 IUI	ACM International Conference on Intelligent User Interfaces	
20	18 ISS	ACM International Conference on Interactive Surfaces and Spaces	
	19 ChineseCHI	International Symposium of Chinese CHI	
20	16 CHI LBW	ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work	
	Organizing Commit	taa	
201	Organizing Commit 21 UIST	Doctoral Consortium Chair	
	20 UIST	Proceeding Chair	
2019 - 202		Publicity Chair	
	20 ISS 20 ECE ARR	UCLA ECE Department Annual Research Review Co-Chair	
202	LO LOL/IIII	332 (232 Soparation) and an incorporation from the original society of the societ	
	External Reviewer		
2013 - 20 ⁻		ACM CHI Conference on Human Factors in Computing Systems	

2013 - 2022 UIST ACM Symposium on User Interface Software and Technology
2014 - 2016 CSCW ACM Conference on Computer-Supported Cooperative Work and Social Computing
2014 - 2019 TOCHI ACM Transactions on Computer-Human Interaction
2019 SIGGRAPH International Conference on Computer Graphics and Interactive Techniques
2013 2020 MobileHCI International Conference On Human-Computer Interaction With Mobile Devices & Services
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 - 2019	DIS	ACM SIGCHI Conference on Designing Interactive Systems
2013 - 2015	ITS	ACM International Conference on Interactive Tabletops and Surfaces
2012 - 2016	GI	Annual Conference on Graphics Interface
2013	MUM	International Conference on Mobile and Ubiquitous Multimedia
2014	CHI PLAY	Annual Symposium on Computer-Human Interaction in Play
2014 - 2015	SUI	ACM Symposium on Spatial User Interaction
2014 - 2015	IUI	ACM International Conference on Intelligent User Interfaces
2015 - 2017	TVX	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
2018	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 as a Reviewer

2015 - 2016	CHI	ACM CHI Conference on Human Factors in Computing Systems
2015 - 2016	UIST	ACM Symposium on User Interface Software and Technology
2016	Ubicomp	ACM International Joint Conference on Pervasive and Ubiquitous Computing
2014	CHI PLAY	Annual Symposium on Computer-Human Interaction in Play