

## Xiang 'Anthony' Chen

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### Current Position

2018 -	Assistant Professor	Department of Electrical & Computer Engineering UCLA
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### 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

### Conference & Journal Papers

Summary CHI: 19; UIST: 15; TOCHI: 2; CSCW: 1; IMWUT: 1; Other venues: 19

- 2023 LNCS 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  
In: Sheng, B., Aubreville, M. (eds) Mitosis Domain Generalization and Diabetic Retinopathy Analysis. MIDOG DRAC 2022. Lecture Notes in Computer Science, vol 13597. Springer, Cham.
- 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 CHI Augmenting Pathologists with NaviPath: Design and Evaluation of a Human-AI 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-AI 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 CHI EmoGlass: an End-to-End AI-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, Jeeun 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, Jeeun 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  
Jeeun 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, Jeeun 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 <b>Best Paper Honorable Mention Award</b>
2020	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, Jeeun 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 <b>Best Paper Honorable Mention Award</b>
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 Byoungwon 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, Jeeun 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, Jeeun 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 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 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.

### *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, Jeeun 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, Hyoungho Jin, Yoonseo Choi, Xiang 'Anthony' Chen  
CHI Gen-AI 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

- 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, Xiang 'Anthony' Chen, 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: \$1,460,571*

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 AI Xiang 'Anthony' Chen (Sole PI)
2021 - 2026	\$548,111	NSF CAREER: Expanding the Interaction Bandwidth between Physicians and AI Xiang 'Anthony' Chen (Sole PI)
2021	\$19,500	Hellman Fellowship: Enabling an Ecosystem of Human-Centered Medical AI 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)

*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	Forté: user-driven generative design tool for easy optimization of 3D printed objects
2018	3D Adept	Forté, 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	3dteconix.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 Collaborated 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.

## Talks

- 2023 AI-in-the-Loop: Catalyzing Advances in AI to Augment Human Activities  
Keynote, ICML 2023 Workshop: Artificial Intelligence & Human Computer Interaction
- 2023 Human-AI Collaborative Systems for the Future of Work  
Intel (hosted by Scott Buck)
- 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 AI  
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)
- 2020 Expanding the Interaction Bandwidth Between Human and AI  
Salesforce Research (hosted by Wenhao Liu)
- 2020 Expanding the Interaction Bandwidth Between Human and AI  
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

<i>Corse Instructor</i>		
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
<i>Teaching Assistant</i>		
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
<i>Ph.D. Students Mentored at UCLA</i>		
2022 -	Youngseung Jeon	AI-Enabled Creativity Support Tools
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-AI Collaboration <b>UCLA ECE Dissertation Year Fellowship</b>
2018 -	Jiahao Li	Making Physical Objects Interactive with Low-cost Sensing and Robotic Augmentation
2018 -	<i>Master Students Mentored at UCLA</i>	
	Matthew Waliman	AI-enabled creativity support tools
	Rikako Hatoya	AI-augmented human communication
	Xingyu Liu	Human-AI Systems for Video Accessibility <b>UCLA School of Engineering ED Rice Outstanding Master Student Award</b> <b>UCLA ECE Distinguished Master's Thesis Research Award</b> <b>Amazon PhD Fellowship</b>
	Wayne Zhang	Crowd-powered accessible online videos
	Roy Jara	AI-enabled expressive writing
	Yifan Xu	Human-AI collaboration for pathology
	Yao Xie	Explainable AI-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 -	<i>Undergraduate Students Mentored at UCLA</i>	
	Faustine Wang	Human-AI storytelling
	Ivy Kang	AI-assisted meetings
	David Xiong	Reading long texts as short tweets
	Alexiy Samoylov	Making everyday objects more manipulable by robots

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

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

2020 -	Jeffrey Jiang	ECE Department, UCLA
	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
	Siyu 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)
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*Review Panel*

2023	Andy Hill CARE Fund
2021 - 2022	National Science Foundation

*Editorial Board*

2020	ISS	Proceedings of the ACM on Human-Computer Interaction
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*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
2018 - 2019	ChineseCHI	International Symposium of Chinese CHI
2016	CHI LBW	ACM CHI Conference on Human Factors in Computing Systems Late Breaking Work

*Organizing Committee*

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 - 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