Xiang 'Anthony' Chen

6730A Boelter Hall 580 Portola Plaza Los Angeles, CA 90095 U.S.A.

Phone: +1-412-980-5740 email: xac@ucla.edu url: https://xac.is

Current Position

Assistant Professor, Department of Electrical & Computer Engineering, UCLA

Research Interests

We believe the ultimate goal of inventing the computer is to augment our human selves. To achieve this, my group's research focuses on the following three topics:

- **Intelligent User Interfaces**: how can we design interfaces of intelligent systems that augment a user to accomplish domain-specific tasks?
- **Sensing** & **Interaction Techniques**: how can we invent new sensors and devices that afford novel experiences for users to interact with a computer?
- **Computational Design** & **Fabrication**: how can we build computational platforms that empower users to realize their ideas into digital or physical artifacts?

Education

2012-17 Carnegie Mellon University

Рн.D. in Computer Science, School of Computer Science

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

2010-12 University of Calgary

M.Sc. in Computer Science, Department of Computer Science

Advisors: Saul Greenberg and Richard Levy; Committee: Barry Wylant and Larry Katz

Zhejiang University

2003-06

B.ENG. in Computer Science, Chu Kochen Honors College

2010 Universidad Politécnica de Madrid

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

Affiliated High School of South China Normal University

Innovation Class student in Science

Honors & Awards

2020	Hellman Fellowship
2020	CHI Best Paper Honorable Mentioned Award
2018	National Science Foundation: Research Initiation Initiative Award
2018	CHI Best Paper Honorable Mentioned 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
2007-08	University of Hong Kong Crimson Summer Exchange Co-Fellowship
	Professional Experience
2018	Tableau Research, Palo Alto Research Scientist with a focus on enabling people to interact with data on mobile platforms.
2015	Google Research, Mountain View Research Intern in Mobile Interactive Computing Group with Yang Li. Developed a user-defined cross-device interaction framework.
2014	Microsoft Research, Redmond Research Intern in Natural Interaction Research with Bill Buxton and Ken Hinckley. Developed a multi-wearable interactive system.
2013	Autodesk Research, Toronto Research intern/consultant in User Interface Research Group with Tovi Grossman, Daniel Wigdor and George Fitzmaurice. Developed interaction techniques with smart watches.
2012	Microsoft Research, Redmond
	Research Intern in Natural Interaction Research with Ken Hinckley and Hrvoje Benko. Developed motion and context sensing techniques for pen computing.

Microsoft Research Asia, Beijing

Research intern in Media Computing Group with Bin B. Zhu.

Developed novel CAPTCHA techniques and systems.

Alibaba Group, Hangzhou

2009

Software engineer intern in Quality Assurance Group.

Developed routines for testing data-centric web-based programs.

Publications

DISSERTATIONS

- Xiang 'Anthony' Chen. Making Fabrication Real: Fabrication for Real Usage, with Real Objects, by Real People Doctoral dissertation, Carnegie Mellon University.
- Xiang 'Anthony' Chen. Body-Centric Interaction with a Screen-based Handheld Device. Master's thesis, University of Calgary.

Conference & Journal Papers

- Ruolin Wang, Zixuan Chen, Mingrui Zhang, Zhaoheng Li, Zhixu Liu, Zihan Dang, Chun Yu, **Xiang 'Anthony' Chen**. Revamp: Enhancing Accessible Information Seeking Experience of Online Shopping for Blind & Low Vision Users. *Proc. ACM CHI 2021*. Acceptance Rate: 26.3%.
- CHI 2021 Xingyu Liu, Patrick Carrington, **Xiang 'Anthony' Chen**, Amy Pavel. What Makes Videos Accessible to Blind and Visually Impaired Users? *Proc. ACM CHI 2021*. Acceptance Rate: 26.3%.
- CSCW 2021 Hongyan Gu, Jingbin Huang, Lauren Hung, **Xiang 'Anthony' Chen**. Lessons Learned from Designing an AI-Enabled Diagnosis Tool for Pathologists. *Proc. ACM on HCI (CSCW)*.
- IUI 2021 Juan Rebanal, Jordan Combitsis, Yuqi Tang, Xiang 'Anthony' Chen. XAlgo: a Design Probe of Explaining Algorithms' Internal States via Question-Answering. Proc. ACM IUI 2021. Acceptance Rate: 25%.
- Yuan Liang, Liang Qiu, Tiancheng Lu, Zhujun Fang, Dezhan Tu, Jiawei Yang, Tiandong Zhao, Yiting Shao, Kun Wang, **Xiang 'Anthony' Chen**, Lei He. OralViewer: 3D Demonstration of Dental Surgeries for Patient Education with Oral Cavity Reconstruction from a 2D Panoramic X-ray *Proc. ACM IUI 2021*. Acceptance Rate: 25%.
- Jeeeun Kim, James Zhou, Amanda Ghassaei, **Xiang 'Anthony' Chen**. OmniSoft: A Design Tool for Soft Objects by Example. *Proc. ACM TEI 2021*. Acceptance Rate: 29.9%.
- VRST 2020 Yudai Tanaka, Arata Horie, **Xiang 'Anthony' Chen**. DualVib: Simulating Haptic Sensation of Dynamic Mass by Combining Pseudo-Force and Texture Feedback. *Proc. ACM VRST 2020*, 1-10. Acceptance Rate: 26.5%.
- UIST 2020 Jiahao Li, Meilin Cui, Jeeeun Kim, **Xiang 'Anthony' Chen**. Romeo: A Design Tool for Embedding Transformable Parts in 3D Models to Robotically Augment Default Functionalities. *Proc. ACM UIST* 2020, 897-911. Acceptance Rate: 21%.
- Ritam Sarmah, Yunpeng Ding, Di Wang, Cheuk Yin Phipson Lee, Toby Jia-Jun Li, **Xiang 'Anthony' Chen**. Geno: A Developer Tool for Authoring Multimodal Interaction on Existing Web Applications. *Proc. ACM UIST 2020*, 1169-1181. Acceptance Rate: 21%.
- Yao Xie, Melody Chen, David Kao, Ge Gao, **Xiang 'Anthony' Chen**. CheXplain: Enabling Physicians to Explore and Understand Data-Driven, AI-Enabled Medical Imaging Analysis. *Proc. ACM CHI 2020*, 1-13. Acceptance Rate: 24.3%.
- Yuan Liang, Hsuan-Wei Fan, Zhujun Fang, Leiying Miao, Wen Li, Xuan Zhang, Weibin Sun, Kun Wang, Lei He, **Xiang 'Anthony' Chen**. OralCam: Enabling Self-Examination and Awareness of Oral Health Using a Smartphone Camera. *Proc. ACM CHI 2020*. Acceptance Rate: 24.3%.

 BEST PAPER HONORABLE MENTION TOP 5%
- Runchang Kang, Anhong Guo, Gierad Laput, Yang Li, **Xiang 'Anthony' Chen**. Minuet: Multimodal Interaction with an Internet of Things. *Proc. ACM SUI 2019*, 1-10. Acceptance Rate: 23%.

- UIST 2019 Jiahao Li, Jeeeun Kim, **Xiang 'Anthony' Chen**. Robiot: A Design Tool for Actuating Everyday Objects with Automatically Generated 3D Printable Mechanisms. *Proc. ACM UIST 2019*, 673–685. Acceptance Rate: 24%.
- Da-Yuan Huang, Teddy Seyed, Linjun Li, Zhihao Yao, Yuchen Jiao, **Xiang 'Anthony' Chen**, Xing-Dong Yang. Orecchio: Extending Body-Language through Actuated Static and Dynamic Auricular Postures. *Proc. ACM UIST 2018*, 697–710. Acceptance Rate: 21.3%.
- CHI 2018 Xiang 'Anthony' Chen, Ye Tao, Guanyun Wang, Runchang Kang, Tovi Grossman, Stelian Coros, Scott Hudson. Forte: User-Driven Generative Design. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- CHI 2018 Xiang 'Anthony' Chen, Stelian Coros, Scott Hudson. Medley: A Library of Embeddables to Explore Rich Material Properties for 3D Printed Objects. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- Jun Gong, Zheer Xu, Qifan Guo, Teddy Seyed, **Xiang 'Anthony' Chen**, Xiaojun Bi, Xing-Dong Yang. WrisText: One-handed Text Entry on Smartwatch using Wrist Gestures. *Proc. ACM CHI* 2018, 1-14. Acceptance Rate: 25.7%.
 - **BEST PAPER HONORABLE MENTION TOP 5%**
- CHI 2018 Byoungkwon An, Ye Tao, Jianzhe Gu, Tingyu Cheng, **Xiang 'Anthony' Chen**, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Shigeo Takahash, Hsiang-Yun Wu, Teng Zhang, Lining Yao. Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces. *Proc. ACM CHI 2018*, 1-12. Acceptance Rate: 25.7%.
- CHI 2017 Anhong Guo, Jeeeun Kim, **Xiang 'Anthony' Chen**, Tom Yeh, Scott Hudson, Jennifer Mankoff, Jeffrey Bigham. Façade: Auto-generating Tactile Interfaces to Appliances. *Proc. ACM CHI 2017*, 5826-5838. Acceptance Rate: 25%.
- TOCHI 2017 Xiang 'Anthony' Chen, Yang Li. Improv: An Input Framework for Improvising Cross-Device Interaction By Demonstration. ACM TOCHI, 24(2), 15.
- UIST 2016 Xiang 'Anthony' Chen, Jeeeun Kim, Jennifer Mankoff, Tovi Grossman, Stelian Coros, Scott Hudson. Reprise: A Design Tool for Specifying, Generating, and Customizing 3D Printable Adaptations on Everyday Objects. *Proc. ACM UIST 2016*, 29-39. Acceptance Rate: 20.6%.
- UIST 2016 Xiang 'Anthony' Chen, Yang Li. Bootstrapping User-Defined Body Tapping Recognition with Offline-Learned Probabilistic Representation. *Proc. ACM UIST 2016*, 359-364. Acceptance Rate: 20.6%.
- UIST 2016 Anhong Guo, **Xiang 'Anthony' Chen**, Haoran Qi, Samuel White, Suman Ghosh, Chieko Asakawa, Jeffrey Bigham. VizLens: A Robust and Interactive Screen Reader for Interfaces in the Real World. *Proc. ACM UIST 2016*, 651-664. Acceptance Rate: 20.6%.
- Vikram Kamath Cannanure, **Xiang 'Anthony' Chen**, Jennifer Mankoff. Twist 'n' Knock: A One-handed Gesture for Smart Watches. *Proc. GI 2016*, 189-193. Acceptance Rate: 39.4%.
- CHI 2016 Adrian de Freitas, Michael Nebeling, **Xiang 'Anthony' Chen**, Junrui Yang, Akshaye Shreenithi Kirupa Karthikeyan Ranithangam, Anind Dey. Snap-To-It: A User-Inspired Platform for Opportunistic Device Interactions. *Proc. ACM CHI* 2016, 5909-5920. Acceptance Rate: 23.4%.
- IUI 2016 Gierad Laput, **Xiang 'Anthony' Chen**, Chris Harrison. Sweepsense: Ad Hoc Configuration Sensing Using Reflected Swept-Frequency Ultrasonics. *Proc. ACM IUI 2016*, 332-335.
- UIST 2015 Xiang 'Anthony' Chen, Stelian Coros, Jennifer Mankoff, Scott Hudson. Encore: 3D Printed Augmentation of Everyday Objects with Printed-Over, Affixed and Interlocked Attachments. *Proc. ACM UIST 2015*, 73-82. Acceptance Rate: 23.6%.
- UIST 2015 Gierad Laput, Xiang 'Anthony' Chen, Chris Harrison. 3D Printed Hair: Fused Deposition Mod-

- eling of Soft Strands, Fibers, and Bristles. Proc. ACM UIST 2015, 593-597. Acceptance Rate: 23.6%.
- MobileHCI 2015 Tovi Grossman, Xiang 'Anthony' Chen, George Fitzmaurice. Typing on Glasses: Adapting Text Entry to Smart Eyewear. *Proc. ACM MobileHCI 2015*, 144-152. Acceptance Rate: 25.2%.
- UIST 2014 Ken Hinckley, Michel Pahud, Hrvoje Benko, Pourang Irani, Marcel Gavriliu, François Guimbretière, Xiang 'Anthony' Chen, Fabrice Matulic, William Buxton, Andrew Wilson. Sensing Techniques for Tablet+Stylus Interaction. *Proc. ACM UIST 2014*, 605-614. Acceptance Rate: 22.2%.

 ▼ BEST PAPER AWARD TOP 1%
- UIST 2014 **Xiang 'Anthony' Chen**, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott Hudson. Air+Touch: Interweaving Touch & In-Air Gestures. *Proc. ACM UIST 2014*, 519-525. Acceptance Rate: 22.2%.
- UIST 2014 Xiang 'Anthony' Chen, Tovi Grossman, George Fitzmaurice. Swipeboard: A Text Entry Technique for Ultra-Small Interfaces That Supports Novice to Expert Transitions. *Proc. ACM UIST 2014*, 615-620. Acceptance Rate: 22.2%.
- UIST 2014 Gierad Laput, Robert Xiao, **Xiang 'Anthony' Chen**, Scott Hudson, Chris Harrison. Skin Buttons: Cheap, Small, LowPowered and Clickable Fixed-Icon Laser Projectors. *Proc. ACM UIST 2014*, 389-394. Acceptance Rate: 22.2%.
- CHI 2014 Xiang 'Anthony' Chen, Tovi Grossman, Daniel Wigdor, George Fitzmaurice. Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch. *Proc. ACM CHI 2014*, 159-168. Acceptance Rate: 22.8%.
- **Y** Best Paper Award top 1%
- MobileHCI 2014 Xiang 'Anthony' Chen, Julia Schwarz, Chris Harrison, Jennifer Mankoff, Scott Hudson. Around-Body Interaction: Sensing & Interaction Techniques for Proprioception-Enhanced Input with Mobile Devices. *Proc. MobileHCI 2014*, 287-290. Acceptance Rate: 21.3%.
- VC 2013 Bin Pan, Yong Zhao, Xiaoming Guo, **Xiang Chen**, Wei Chen, Qunsheng Peng. Perception-motivated visualization for 3D city scenes. *The Visual Computer* 29.4 (2013): 277-286.
- GI 2012 Ken Hinckley, **Xiang 'Anthony' Chen**, Hrvoje Benko. Motion and Context Sensing Techniques for Pen Computing. *Proc. GI 2012*, 71-78. Acceptance Rate: 33%.
- MobileHCI 2012 Xiang 'Anthony' Chen, Nicolai Marquardt, Anthony Tang, Sebastian Boring, Saul Greenberg. Extending a Mobile Device's Interaction Space through Body-Centric Interaction. *Proc. MobileHCI* 2012, 151-160. Acceptance Rate: 25%.
- MobileHCI 2012 Sebastian Boring, David Ledo, **Xiang 'Anthony' Chen**, Anthony Tang, Nicolai Marquardt, Saul Greenberg. The Fat Thumb: Using the Thumb's Contact Size for Single-Handed Mobile Interaction. *Proc. MobileHCI 2012*, 39-48. Acceptance Rate: 25%.
- AVI 2012 Xiang 'Anthony' Chen, Sebastian Boring, Sheelagh Carpendale, Anthony Tang, Saul Greenberg. Spalendar: Spatially Visualizing Group's Calendar Activities as a Public Interactive Display. *Proc. AVI 2012*, 689-696.
- CAD/CG 2011 Bin Pan, **Xiang Chen**, Xiaoming Guo, Wei Chen, Qunsheng Peng. Interactive Expressive Illustration of 3D City Scene. *Proc. CAD/Graphics* 2011, 406-410.

MAGAZINE ARTICLES

CACM 2019 Jennifer Mankoff, Megan Hofmann, **Xiang 'Anthony' Chen**, Scott E. Hudson, Amy Hurst, Jeeeun Kim. Consumer-grade fabrication and its potential to revolutionize accessibility. *Comm. ACM*, 62(10), October 2019.

Workshop/Demo/Work-in-Progress/Poster/Consortium Papers

- UIST 2020 Eric Perez, James King, Yugo Watanabe, **Xiang 'Anthony' Chen**. Counterweight: Diversifying News Consumption. *ACM UIST 2020 Adjunct Demo*.
- IUI 2019 Benjamin Wagstaff, Chiao Lu, **Xiang 'Anthony' Chen**. Automatic Exam Grading By a Mobile Camera. ACM IUI 2019 Adjunct Demo.
- Yao Xie, Ge Gao, **Xiang 'Anthony' Chen**. Outlining the Design Space of Explainable Intelligent Systems for Medical Diagnosis. *ACM IUI 2019 Adjunct Worshop*.
- Ye Tao, Jianzhe Gu, Byoungkwon An, Tingyu Cheng, **Xiang 'Anthony' Chen**, Xiaoxiao Zhang, Wei Zhao, Youngwook Do, Teng Zhang, Lining Yao. Demonstrating Thermorph: Democratizing 4D Printing of Self-Folding Materials and Interfaces. *ACM CHI 2018 Adjunct Demo*.
- UIST 2016 Xiang 'Anthony' Chen. Making Fabrication Real. ACM UIST 2016 Adjunct Doctoral Consortium.
- TEI 2012 Xiang 'Anthony' Chen. Body-centric interaction with mobile devices. ACM TEI 2012 Adjunct Graduate Consortium.

Patents

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

Funding

- Xiang 'Anthony' Chen (Sole PI). Hellman Fellowship: Enabling an Ecosystem of Human-Centered Medical AI. \$19,500.
- Xiang 'Anthony' Chen (Sole PI). NSF CRII: CHS: Techniques for Helping Domain Experts Understand and Improve Models Underlying Intelligent Systems. \$200,460.
- Xiang 'Anthony' Chen (Sole PI). Meta Technology Pte. Ltd. (Singapore) gift funding, \$5,000.
- Xiang 'Anthony' Chen (Sole PI). Adobe gift funding, \$7,500.

Press

PRIMARY RESEARCH PROJECTS

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	All ₃ DP. "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	$_{3}\mathrm{D}$ Adept. "Forte, the generative design tool that will ease the optimization of $_{3}\mathrm{D}$ printed objects"
2018	3 dimensions.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	Branchemagasinet 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"
	Collaborated Research Projects
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, ALL ₃ DP
2016	SweepSense (collaborated with Gierad Laput) R&D Magazine, MIT Technology Review
2016	Snap to It (collaborated with Adrian de Freitas) MIT Technology Review

3D Printed Hair (collaborated with Gierad Laput) 2015 Fast Company, CNET, Gizmodo, Hackaday, MIT Technology Review, Engadget, Plastics Today, New York Magazine, etc. **Skin Buttons** (collaborated with Gierad Laput) 2014 New York Times, TechCrunch, WIRED, Fast Company, New Scientist, Gizmodo, CBC, etc. Tablet+Stylus Interaction (collaborated with Ken Hinckley) 2014 FastCo Design's #2 User Interface Innovation of 2014 The Fat Thumb (collaborated with Sebastian Boring) 2012 PC World, Engadget, Gizmodo, etc. **Talks** Expanding the Interaction Bandwidth Between Human and AI 08/2020 Snap Research, U.S. (hosted by Rajan Vaish) Expanding the Interaction Bandwidth Between Human and AI 04/2020 Salesforce Research (hosted by Wenhao Liu) **Expanding the Interaction Bandwidth Between Human and AI** 01/2020 Media Arts and Technology Seminar, UC Santa Barbara Expanding the Interaction Bandwidth Between Human and AI 12/2019 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) **Designing Explainable Intelligent Systems** 08/2019 the 5th Summer School on Computational Interaction, New York, U.S. **Computational Tool Support for Mass Customization** 02/2018 FXPAL, Palo Alto, U.S. (hosted by Daniel Avrahami) Computational Design and Fabrication to Augment Everyday Objects 05/2017 Dartmouth College, Hanover, U.S. (hosted by Xing-Dong Yang) **Body-Centric Interaction with Mobile and Wearable Devices** 02/2016 Body Hacking Con 2016, Austin, U.S. **Enabling End-User Creativity with New Fabrication Techniques** 12/2015 X-Studio, Tsinghua University, Beijing, China (hosted by Ying-Qing Xu) Duet: Exploring Joint Interactions on a Smart Phone and a Smart Watch 10/2015 Midwest UX 2015, Pittsburgh, U.S. Snap-to-It: Using Mobile Cameras To Opportunistically Connect Interact With An In-03/2015 ternet Of Things QualComm, San Diego, U.S.

David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada (hosted

Motion and Context Sensing for Pen Computing

08/2013

by Daniel Vogel)

05/2013 Motion and Context Sensing for Pen Computing

Dynamic Graphics Project, University of Toronto, Toronto, Canada (hosted by Daniel Wigdor)

o6/2013 Motion and Context Sensing for Pen Computing

Autodesk Research, Toronto, Canada (hosted by Tovi Grossman)

o_{5/2013} Around-Body Interaction

Hasso-Plattner-Institut, Berlin, Germany (hosted by Patrick Baudisch)

03/2013 Around-Body Interaction

QualComm, San Diego, U.S.

Teaching and Mentoring

Course Instructor

2019-present CS/ECE M119: Fundamental of Networked Embedded Systems. ECE Department, UCLA.

2018-present ECE 209AS: Human-Computer Interaction. ECE Department, UCLA.

2021-present ECE 188: Interactive Applied & Machine Leanning. ECE Department, UCLA.

TEACHING ASSISTANT

o5430: Programming Usable Interfaces. School of Computer Science, Carnegie Mellon Uni-

versity.

o5410: User-Centered Research and Evaluation. School of Computer Science, Carnegie Mel-

lon University.

2010 CPSC 481: Human Computer Interaction I. Department of Computer Science, University of

Calgary.

Ph.D. Students Mentored at UCLA

2018-present Hongyan Gu. MS/Ph.D. ECE; Project: Human-AI Collaboration for Medical Diagnosis.

Jiahao Li. Ph.D. in MAE; Project: Augmenting Everyday Objects with Robotic Capabilities.

2019-present Ruolin Wang. Ph.D. ECE; Project: AI for Accessibility.

2020-present Xingyu Liu. Ph.D. ECE; Project: AI for Accessibility.

Noyan Evirgen. Ph.D. in ECE; Project: Interactive Generative AI.

Yuan Liang. Ph.D. in ECE; Project: Computer Vision for Medical Imaging.

Sam Arlin. Ph.D. in CS; Project: AI-enabled expressive writing .

M.S. Students Mentored at UCLA

2018-present Electrical & Computer Engineering: Yifan Xu, Yao Xie, Yunpeng Ding, Carlo Rebanal, Amirali

Omidfar, Ximeng Liu, Nicolas Cheng.

2018-present Computer Science: Ritam Sarmah.

Undergraduate Students Mentored at UCLA

2018-present Electrical & Computer Engineering: Alexiy Samoylov, James King, Eric Perez, Alexander Chen,

Jingbin Huang, Melody Chen, David Kao, Ben Wagstaff.

2018-present Computer Science: Julia Ramos, Lizeth Vera, Todd Hartog, Grace Zhao, Zixuan Chen, Jordan

Combitsis, Phipson Lee, Joseph Lu, Bey-Ru Hsu.

2018-present Cognitive Science: Colleen Li, Brandon Ngo, Rita Dang, Marina Souliman, Claire Guo.

2018-present Other Majors: Yumeng Zhuang, Wanxin Xie, Caitlin Lee.

2018-present Interns, Visiting and Collaborative Students: Charisa Shin (Brown), Xiao Fan (CSST), Hsuan-

wei Fan (Tsinghua), Mina Huh (KAIST), Bowen Zhang (CSST).

MENTORING DURING PH.D. AT CMU

Runchang Kang. Master student in Architecture

Project: Finite Element Analysis of post-processed generative designs (CHI '18, SUI '19).

²⁰¹⁵ Vikram Kamath Cannanure. Master student in Learning Science

Project: one-handed gesture for smart watches (GI '16).

Yaakov Lyubetsky, Hyunsoo Andrew Park. Master students in HCI and Communication Design

Project: learning from failed 3D prints.

Service

2020-present Ph.D. Thesis Committee

Vikranth Jeyakumar, Electrical & Computer Engineering at UCLA

Haisong Lin, Electrical & Computer Engineering at UCLA

Migyeong Gwak, Computer Science at UCLA

Weinan Song, Electrical & Computer Engineering at UCLA

2019-present M.S. Thesis Committee

Amirali Omidfar, Electrical & Computer Engineering at UCLA Akash Singh, Electrical & Computer Engineering at UCLA

Judge Judge

International Science and Engineering Fair (for high school students)

2020-present Editorial Board

Proceedings of the ACM on Human-Computer Interaction ISS

2017-present Program Committee

ACM CHI Conference on Human Factors in Computing Systems 2019-21

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

ACM Symposium on User Interface Software and Technology 2019-21 ACM International Conference on Intelligent User Interfaces 2019 ACM International Conference on Interactive Surfaces and Spaces 2018

International Symposium of Chinese CHI 2018-19

ACM CHI Conference on Human Factors in Computing Systems 2016 Late Breaking Work

2019-present Organizing Committee

UIST '20 Proceeding Chair

ISS '19-'20 Publicity Chair

UCLA ECE Department Annual Research Review 2020 Co-Chair

2015-present

Session Chair UIST '15, '19-'20, CHI '16-'17.

2012-present

Reviewer

Human-Computer Interaction:

CHI '13-'18, UIST '13-'18, CSCW '14-'16, MobileHCI '13-'16, '20, TEI '13-'16, ISWC '15, Ubicomp '16, DIS '14 '18-'19, ITS '13-'15, GI '12-'13, '16, MUM '13, CHI PLAY '14, ToCHI '14 '18-'19, SUI '14-'15, IUI '15, TVX '15 '17, EICS '15, IDC '15, Pervasive Computing '16, '20, IJHCS '17, IMWUT '17-'18, IJHCI '18.

Computer Graphics:

SIGGRAPH '19, EuroGraphics '15, Computer & Graphics '18.

Others

Accessibility '19, TMC '17, C&C '15, NPJ Digital Medicine '20.

2014-2016

* "Special Recognitions" as a Reviewer

CHI PLAY '14, CHI '15-'16, UIST '15-'16, Ubicomp '16.

2007-12

Volunteer

TEI '12

Crimson Summer Exchange, Crimson Chinese Culture Education Foundation Three River Film Festival

References

Scott Hudson

Professor

Human-Computer Interaction Institute, Carnegie Mellon University scott.hudson@cs.cmu.edu

Stelian Coros

Assistant Professor

Department of Computer Science, ETH Zurich

scoros@cmu.edu

Tovi Grossman

Assistant Professor

Department of Computer Science, University of Toronto

tovi@dgp.toronto.edu

Saul Greenberg

Professor

Department of Computer Science, University of Calgary

saul.greenberg@ucalgary.ca

Yang Li

Staff Research Scientist

Google Research

yangli@acm.org