

Qian Yang

yang-qian.github.io • yangqian@cmu.edu
Carnegie Mellon Univ. Newell Simon hall, 5000 Forbes Ave, Pittsburgh, PA 15213, USA

EDUCATION	Ph.D. in Human-Computer Interaction Carnegie Mellon University , Pittsburgh, PA, USA • Advisers: John Zimmerman and Aaron Steinfeld;	Sep. 2014 +
	M.S. in Human-Computer Interaction Carnegie Mellon University , Pittsburgh, PA, USA	Sep. 2014 – Sep. 2016
	M.Des. in Design Shanghai Jiao Tong University, Shanghai, China	Sep. 2010 – Mar. 2013
	B.Eng. in Industrial Design Minor in Business Administration Shanghai Jiao Tong University, Shanghai, China	Sep. 2006 – Jun. 2010
PROFESSIONAL EMPLOYMENT	Google Brain , UX Research Intern (forthcoming) People+AI (PAIR) Initiative, Mountain View, CA • Mentor: Michael Terry	May. 2019 – Aug. 2019
	Microsoft Research , Research Intern Knowledge Technologies and Intelligent Experience Group, Redmond, WA • Designed new intelligent features for Microsoft Office;	May. 2018 – Aug. 2018
	Microsoft Research , Research Intern Machine Teaching Group, Redmond, WA • Designed interactive machine learning tools accessible to amateurs and domain experts;	May. 2017 – Aug. 2017
	Google , UX Research Intern Android Auto, Mountain View, CA	May. 2016 – Aug. 2016
	SAIC Innovation Center , Advanced Design Strategist Design Strategy Group, Shanghai, China	Mar. 2013 – Jul. 2014
	Design Trend Institute , Head of Research & Project Manager Shanghai, China	Aug. 2007 – Aug. 2012
	INTEL System Software Developing Group, UX Designer Intern	Mar. 2012 – Sep. 2012
HONORS (SELECTED)	FastCompany Annual Innovation by Design Awards Finalist, Experimental Category	2018
	CMLH Fellowship in Digital Health The Pittsburgh Health Data Alliance, The Center for Machine Learning and Health	2018
	AAAI Student Scholarship Award The Association for the Advancement of Artificial Intelligence (AAAI)	2017 and 2018
	ProSEED/Crosswalk Seed Grant Carnegie Mellon University	2017
	SensiHub Student Fellowship	2017
	National Scholarship - top 0.1% The Ministry of Education of P.R.China	2009
	Shanghai Jiao Tong University Fellowship (5 times, top 0.4%)	2006 – 2013
	Chery Fellowship (top 0.1%)	2011
	Graduate of the Year - top 0.1% The Government of Shanghai, China	2013 & 2010
	Winner of Los Angeles Auto Show Design Challenge 2013 As a member of SAIC Motor Design Studio; Press: Wired, The Guardian, Fast Company, autoweek, etc.;	2013

**PUBLICATIONS
(2014-)**

Studying AI as a Material for User Experience Design:

- 1) **Q. Yang**, J. Cranshaw, S. Amershi, S. Iqal, J. Teevan, “Sketching NLP: A Case Study of Exploring the Right Things To Design with Language Intelligence” to appear in *Proceedings of CHI’19*, May. 2019.
- 2) D. Wang, **Q. Yang**, A. Abdul, B. Lim, “Designing Theory-Driven User-Centric Explainable AI” to appear in *Proceedings of CHI’19*, May. 2019.
- 3) **Q. Yang**, A. Scuito, J. Zimmerman, J. Forlizzi, A. Steinfeld, “Investigating How Experienced UX Designers Effectively Work with Machine Learning” in *Proceedings of DIS’18*, Hong Kong, China, Jun. 2018. [pdf] - **best paper honorable mention**
- 4) **Q. Yang**, J. Suh, N. Chen, G. Ramos, “Grounding Interactive Machine Learning Tool Design in How Non-Experts Actually Build Models,” in *Proceedings of DIS’18*, Hong Kong, China, Jun. 2018. [pdf]
- 5) **Q. Yang**, N. Banovic, J. Zimmerman, “Mapping Machine Learning Advances from HCI Research to Reveal Starting Places for Design Research,” in *Proceedings of CHI ’18*, Montréal, Canada, Apr. 2018. [pdf]
- 6) **Q. Yang**, “Machine Learning as a UX Design Material: How Can We Imagine Beyond Automation, Recommenders, and Reminders?” in *Proceedings of The AAAI 2018 Spring Symposium on Designing the User Experience of Artificial Intelligence*, Stanford, CA, USA, Mar. 2018. [pdf]
- 7) **Q. Yang**, “The Role of Design in Creating Machine-Learning-Enhanced User Experience ,” in the Proceedings of *The AAAI 2017 Spring Symposium on Designing the User Experience of Machine Learning Systems Technical Report SS-17-04*, Stanford, CA, USA, Mar. 2017. [pdf]
- 8) **Q. Yang**, A. Steinfeld, A. Tomasic, J. Zimmerman, “Planning Adaptive Mobile Experiences When Wireframing” in *Proceedings of DIS ’16*, Brisbane, Australia, May. 2016. [pdf]
- 9) **Q. Yang**, “Bridging Machine Learning and Real World Complexities with Interaction Design,” in *Extended Abstracts of CHI ’16 Workshop on Human-centered Machine Learning*, San Jose, CA, USA, May. 2016. [pdf]

Designing AI for Healthcare:

- 10) **Q. Yang**, A. Steinfeld, J. Zimmerman, “Unremarkable AI: Fitting Intelligent Decision Support into Critical, Clinical Decision-Making Processes” to appear in *Proceedings of CHI’19*, May. 2019.
- 11) **Q. Yang**, J. Zimmerman, A. Steinfeld, L. Carey, J. Antaki, “Investigating the Heart Pump Implant Decision Process: Opportunities for Decision Support Tools to Help,” in *Proceedings of CHI ’16*, San Jose, CA, USA, May. 2016. [pdf] - **CHI best paper honorable mention**
- 12) **Q. Yang**, M. Kanwar, J. Zimmerman, J. Antaki, L. Carey, “VAD Patient Selection: What Happens In Real-World Practice?” in *Abstracts of The International Society for Heart and Lung Transplantation (ISHLT) Conference 2016*, Washington D.C., USA, Apr. 2016.
- 13) **Q. Yang**, M. Kanwar, J. Antaki, L. Carey, J. Zimmerman “Patient Selection for Ventricular Assist Devices: What Happens In Real Practice?” in *The American Heart Association Fellows Research Day*, Pittsburgh, PA, USA Jan. 2016.
- 14) **Q. Yang**, J. Zimmerman, and A. Steinfeld, “Review of Medical Decision Support Tools: Emerging Opportunity for Interaction Design,” in *Proceedings of IASDR ’15*, Brisbane, Australia, Nov. 2015. [pdf]
- 15) C. Basu, **Q. Yang**, D. Hungerman, A. Dragan, M. Singhal, “Do You Want Your Autonomous Car to Drive Like You?,” in *Proceedings of HRI ’17*, Vienna, Austria, Mar. 2017. [pdf]

INVITED TALKS (SELECTED)	Invited Talk: How Machine Intelligence Impacts Product Innovation FutureX Live: The Modified Market for the Modern Consumer, Pittsburgh, PA, USA; Hosted by Moxie.	Sep. 2018
	Invited Talk & Panel Chair: Artificial Intelligence and Design Education IACHI'2018: AI and the Next Generation User Experience, Montreal, Canada; Hosted by Prof. Zhiyong Fu.	Apr. 2018
	Seminar & Workshop: Design Machine-learning-mediated User Experience Savannah College of Art and Design, Savannah, GA, USA. Hosted by Prof. Eunki Chung	Nov. 2016
	Toward Machine-learning-friendly Automotive Interfaces SAIC Global HQ, Shanghai, China.	Aug. 2016
	Keynote: Rethinking the IQ and EQ of Computers International Embodied Interaction Design Seminar 2015, Beijing, China.	Jul. 2015
TEACHING (SELECTED)	Co-Instructor of <i>Design of Artificial Intelligence Products</i> Carnegie Mellon University 05-617/317; Co-teaching with Prof. John Zimmerman;	Spring 2019
	Guest Lecture on Human-AI Interaction <i>Human-AI Interaction</i> , Carnegie Mellon University 05-499/05-899; Instructor: Jeffrey P. Bigham;	Fall 2018
	Guest Lecture on Designing AI <i>Graduate Design Studio II</i> , Carnegie Mellon University 05-712; Instructor: Peter Scupelli;	Spring 2018