

Qian Yang

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EDUCATION	Ph.D. in Human-Computer Interaction Carnegie Mellon University , Pittsburgh, PA, USA • Concentration: computer science; • Advisers: John Zimmerman and Aaron Steinfeld;	Sep. 2014 +
	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	Microsoft Research , AI Research Intern Knowledge Technology Experience Group, Redmond, WA	May. 2018 – Aug. 2018
	Microsoft Research , AI Research Intern Machine Teaching Group, Redmond, WA • Mentored by Gonzalo Ramos, Jina Suh and Patrice Simard; • 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
	Advanced Design Strategist SAIC Group Technology Center, Shanghai, China	Mar. 2013 – Jul. 2014
	Head of Research & Project Manager Design Trend Institute, Shanghai, China • As the third employee of the institute, led more than 20 projects across diverse industries within 5 years, jointly making it the nationally highest ranked design research service; • Specialized in analyzing user behaviour and aesthetics with a combination of in-depth empirical study and in-scale data mining approaches; • Organized <i>Insight Shanghai</i> , the first and largest design trend conference in China; More than 100 Fortune500 companies attended from 2008 to 2012;	Aug. 2007 – Aug. 2012
	UX Designer Intern, INTEL System Software Developing Group	Mar. 2012 – Sep. 2012
	Product Research Intern, Philips, Consumer Lifestyle	Dec. 2011 – Mar. 2012
	Leading Research Intern, Asia Design Institute	Feb. 2010 – Jun. 2010
PUBLICATIONS (2014-)	Machine Learning as a Design Material: 1) Q. Yang , A. Scuito, J. Zimmerman, J. Forlizzi, A. Steinfeld, “Investigating How Experienced UX Designers Effectively Work with Machine Learning” in <i>Proceedings of DIS’18</i> , Hong Kong, China, Jun. 2018. [pdf] - best paper honorable mention 2) Q. Yang , J. Suh, N. Chen, G. Ramos, “Grounding Interactive Machine Learning Tool Design in How Non-Experts Actually Build Models,” in <i>Proceedings of DIS’18</i> , Hong Kong, China, Jun. 2018. [pdf] 3) Q. Yang , N. Banovic, J. Zimmerman, “Mapping Machine Learning Advances from HCI Research to Reveal Starting Places for Design Research,” in <i>Proceedings of CHI ’18</i> , Montréal, Canada, Apr. 2018. [pdf] 4) Q. Yang , “Machine Learning as a UX Design Material: How Can We Imagine Beyond Automation, Recommenders, and Reminders?” in <i>Proceedings of The AAAI 2018 Spring Symposium on Designing the User Experience of Artificial Intelligence</i> , Stanford, CA, USA, Mar. 2018. [pdf] 5) Q. Yang , “The Role of Design in Creating Machine-Learning-Enhanced User Experience ,” in the Proceedings of <i>The AAAI 2017 Spring Symposium on Designing the User Experience of Machine Learning Systems Technical Report SS-17-04</i> , Stanford, CA, USA, Mar. 2017. [pdf]	

- 6) **Q. Yang**, A. Steinfeld, A. Tomasic, J. Zimmerman, “Planning Adaptive Mobile Experiences When Wireframing” in *Proceedings of DIS '16*, Brisbane, Australia, May. 2016. [pdf]
- 7) **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]

Machine Learning Supporting High-Risk Clinical Interventions:

- 8) **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**
- 9) **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.
- 10) **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.
- 11) **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]

Other Work on Intelligent User Experience:

- 12) 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]
- 13) A. Steinfeld, L. Bloomfield, S. Amick, Y. Huang, **Q. Yang**, W. Odom, J. Zimmerman, “How Location-Aware Mobile Information Increases Accessibility to Transit,” under *Review for the Journal of Urban Technology*, Sep. 2016.
- 14) **Q. Yang**, J. Fu, “Car Face Aesthetic Model Based on Human Face Aesthetic Rules,” *Design Journal*, vol. 2, pp. 18–20, Feb. 2013.

HONORS (SELECTED)

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
Student Leadership Award (2 times, top 0.2%)	2008 – 2009
Outstanding Student Award (3 times, top 0.2%)	2007 – 2009
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
Gold Award of SAP Interaction Design Workshop	2011
Creativity Award of Volkswagen Future Design Competition	2011
Honorable Mention of National Creative Technology Design Competition	2007

INVITED TALKS	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
	Advanced Design Research in Practice Design Empowers Dreams Conference, Shanghai, China.	Jun. 2013
	Understanding Chinese Trend-setters' Lifestyle and Personal Value <i>Insight Shanghai</i> Design Trend Conference 2012, Shanghai, China.	Sep. 2012
	Chinese Sense of Luxury and its Trend <i>Insight Shanghai</i> Design Trend Conference 2011, Shanghai, China.	Sep. 2011
	Applying Developmental Psychology to Product Design Research Changhong Electronics HQ, Mianyang, China.	Jul. 2011
TEACHING	Guest Lecture on Designing AI <i>Graduate Design Studio II</i> , Carnegie Mellon University 05-712; Instructor: Peter Scupelli;	Spring 2018
	Teaching Assistant of <i>Designing Human-Centered Software</i> Instructor: Chris Harrison; Carnegie Mellon University 05-391 / 05-891;	Spring 2018
	Teaching Assistant of <i>User-Centered Research and Evaluation</i> Instructors: Amy Ogan and Chris Connors; Carnegie Mellon University 05-410 / 05-610;	Fall 2017
	Guest Lectures on Practical Design Research Automotive Design, Shanghai Jiao Tong University;	Spring 2013
PRESS (SELECTED)	<i>Designing AI Systems with Qian Yang</i> , The Women in Tech Show. Host: Edaena Salinas;	Jan. 2018
	<i>An Ingenious Approach To Designing AI That Doctors Trust</i> , Fast Company.	Jan. 2018
	<i>Designers Aren't Prepared To Make AI – Here's How To Get Ready</i> , Fast Company.	Oct. 2017
	<i>LA Auto Show: Nature-Inspired Futuristic Concept Vehicles</i> , The Guardian	Dec. 2013
	<i>Outlandish Concept Cars Inspired by Nature</i> , WIRED	Dec. 2013
	<i>5 Crazy Personal Mobility Concepts—Inspired By Nature</i> , Fast Company	Dec. 2013
<i>SAIC Wins LA Auto Show Design Challenge</i> , Autoweek	Nov. 2013	
SERVICES	HCI PhD program Student Representative Carnegie Mellon University	Spring 2015 & Spring 2018
	Speaker, Young Women for STEM Google Recognition Night Penn State New Kensington, PA, USA	Jul. 2015
REFERENCES	Prof. John Zimmerman (adviser) Professor at Human-computer Interaction Institute, Carnegie Mellon University; johnz@cs.cmu.edu;	
	Prof. Aaron Steinfeld (co-adviser) Professor at Robotics Institute, Carnegie Mellon University; steinfeld@cmu.edu;	