Yan Chen

CONTACT
INFORMATION

3348 North Quad
4817 Bob and Betty Beyster Building   yanchenm@umich.edu
University of Michigan   www.um-yanchen.com
Ann Arbor, MI, 48109

RESEARCH
INTERESTS

Collaboration in software development, programming support Tools, crowdsourcing.

EDUCATION

University of Michigan, Ann Arbor, MI, US

Ph.D. in Information Science (2014 - present)
- Advisors: Professor Walter Lasecki and Professor Steve Oney

University of Colorado, Boulder, CO, US

M.S in Applied Mathematics (2014)
- Master Thesis: Asymptotic Series Solutions To One-Dimensional Helmholtz Equation
- Thesis Advisor: Professor Harvey Segur

University of Colorado, Boulder, CO, US

B.S. in Applied Mathematics and B.S. in Electrical and Computer Engineering (2014)

PAPERS

[4].**Yan Chen**, Mauli Pandey, Jean Song, Walter S. Lasecki, Steve Oney. Improving Crowd-Supported GUI Testing with Structural Guidance. In *Proceedings of the International ACM Conference on Human Factors in Computing Systems (CHI 2020)*, Hawaii, USA.

[3].**Yan Chen**, Sang Won Lee, Yin Xie, Yiwei Yang, Walter S. Lasecki, Steve Oney. Codeon: On-Demand Software Development Assistance. In *Proceedings of the International ACM Conference on Human Factors in Computing Systems (CHI 2017)*, Denver, USA.

[2].**Yan Chen**, Steve Oney, Walter S. Lasecki. Towards Providing On-Demand Expert Support for Software Developers. In *Proceedings of the International ACM Conference on Human Factors in Computing Systems (CHI 2016)*, San Jose, USA.

[1].Vishal Patel, Tom Yeh, M Salem, Yangmuzi Zhang, **Yan Chen**, Rama Chellappa, Larry Davis. Screen Fingerprints: a Novel Modality for Active Authentication. *IT Professional* 15, no. 4 (2013):38-42.

OTHER
PUBLICATIONS

[7].Yan Chen. Mocking-up Desired UI Behaviors from UI Element-Based Recording. Graduate Consortium at *IEEE Symposium on Visual Languages & Human-Centric Computing (VL/HCC'19)*.

[6].**Yan Chen**, Steve Oney, and Walter S. Lasecki. Enhancing Context and Guidance for Asynchronous Collaboration. Poster at *Human Computer Interaction Consortium (HCIC'18)*.

[5].Sang Won Lee, **Yan Chen**, and Walter S. Lasecki. Speech-To-Tasks: Real-Time Crowd Generation of Task Lists from Speech. Demo at *The AAAI Conference on Human Computation (HCOMP '17)*.

[4].Sang Won Lee, **Yan Chen**, Noah Klugman, Sai R. Gouravajhala, Angela Chen, and Walter S. Lasecki. Exploring Coordination Models for Ad Hoc Programming Teams. Late-Breaking-Work

at *International ACM Conference on Human Factors in Computing Systems (CHI 2017)*, Denver, USA.

[3].**Yan Chen**, Steve Oney, Walter S. Lasecki. Expert Crowd Support Systems for Software Developers. Collective Intelligence 2016, New York, USA. (Oral presentation)

[2].**Yan Chen**, Steve Oney, Walter S. Lasecki. Automatically Capturing Context to Create Microtasks for Software Development. Workshop at *International ACM Conference on Human Factors in Computing Systems (CHI 2016)*, San Jose, USA.

[1].Esther Vasiete, **Yan Chen**, Ian Char, Tom Yeh, Vishal Patel, Larry Davis, Rama Chellappa. Toward a non-intrusive, physio-behavioral biometric for smartphones. In *Proceedings of the 16th international conference on Human-computer interaction with mobile devices & services. (MobileHCI 2014)*, pp. 501-506. Toronto, Canada.

TEACHING EXPERIENCE	University of Michigan, Ann Arbor, MI, US

- Introduction to Programming (with Anthony Whyte), (Fall 2019)
- User Interface Development (with Walter Lasecki), (Winter 2019)
- User Interface Development (with Mark Guzdial), (Fall 2018)
- User Interface Development (with Mark Ackerman), (Fall 2017)
- Introduction to Programming (with Steve Oney and Paul Resnick), (Fall 2016)
- Data Visualization (with Eytan Adar), (Fall 2015)

PROFESSIONAL EXPERIENCE

Google, Mountain View, CA, US

- UX Research Intern, (May. 2019 - Aug. 2019)
- Mentors: Dr. Tao Dong
  Supporting programming learning via live streaming

Snap Inc., Seattle, WA, US

- Research Intern, (Jan. 2018 - Apr. 2018)
- Mentors: Dr. Andres Monroy-Hernandez and Dr. Rajan Vaish
  Interviewed with staffed Snap Story curators on their curation tools experience. Drew design implications. Developed a hybrid-machine workflow and system for rapid video curation. Conducted a large-scale (30k+ video) study to explore the effectiveness of the approach.

Harvard University, Cambridge, MA, US

- Undergraduate Research Intern, (Jun. 2013 - Aug. 2013)
- Advisors: Dr. Katharina Reinecke, Professor Krzysztof Gajos
  Developed a web application that quantifies websites' aesthetics and predicts visual preference of people with different cultural background.

University of Colorado, Boulder, CO, US

- Research Assistant, (Sep. 2012 - May 2014)
- Advisor: Professor Tom Yeh
  Developed and conducted in-lab experiments for the DARPA active authentication project on personal computer and smart phone. Applied image and video processing techniques for pattern recognition.

University of Colorado, Boulder, CO, US

- Research Assistant, (Sep. 2012 - May 2014)
- Advisor: Professor Harvey Segur

Generalized hyperasymptotic series mechanism to approximate other functions. Discovered unavoidable oscillation in hyperasymptotic series mechanism.

STUDENTS
SUPERVISED

University of Michigan

- Undergrad
  Yiwei Yang (Fall 2015 - present): Implementing features in Codeon system and assisting user studies and data analysis.
  Zelin Pu (Fall 2015 - May 2016): Assisted with user interface design and user studies.
  Aaron Tatum (Fall 2015 - May 2016): Assisted with user interface design and data analysis.
  Gabriel Matute (Fall 2016 - present): Implementing features in Codeon system and assisting user studies and data analysis.
  Jaylin Herskovitz (Fall 2016 - present): Implementing features in Codeon system and assisting user studies and data analysis.

- Grad
  Yin Xie (Summer 2016): Assisted with designing, developing, and conducting Codeon evaluation study.

University of Colorado at Boulder

- Undergrad
  Ian Char (Fall 2013 - Spring 2014): Assisted with study design and data collection.

SERVICE

Paper reviewing
- PC: HCOMP Demo/WiP '17, CHI LBW'19
- Reviewer for CHI '16-'20, UIST '16, '17' 19, CSCW '17-'19

Led "POSSE Workshop: Introduction to Web Programming" (Workshop) @ POSSE Foundation, 2018, Ann Arbor, MI, United States

Michigan Interactive and Social Computing Research Group (MISC) student coordinator ('19)

HONORS & AWARDS

Selected as a HCIC-Funded Student in University of Michigan to participate in Human Computer Interaction Consortium(HCIC) 2018 "AI & HCI".

University of Michigan Rackham Graduate School Student Travel Grant ('16, '17)

University of Michigan School of Information Student Travel Grant ('16, '17)