Michael Xieyang Liu

Ph.D STUDENT · HCI RESEARCHER

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Research Interests

Human-Computer Interaction (HCI), Programming Support Tools, Sensemaking, End-user Programming, Intelligent User Interfaces

Education

Ph.D. in Human-Computer Interaction (in progress)

CARNEGIE MELLON UNIVERSITY, HUMAN COMPUTER INTERACTION INSTITUTE (HCII), SCHOOL OF COMPUTER SCIENCE (SCS)

· Advisor: Dr. Brad A. Myers & Dr. Aniket Kittur

B.S. in Computer Science

University of Michigan, Department of Electrical Engineering and Computer Science

· Advisor: Dr. Walter Lasecki

B.S.E. in Electrical and Computer Engineering

University of Michigan – Shanghai Jiao Tong University Joint Institute

· Advisor: Dr. Jing Liu

Aug. 2017 - Present

Pittsburgh, PA, USA

Sept. 2015 - Apr. 2017

Ann Arbor, MI, USA

Sept. 2013 - Aug. 2017

Shanghai, China

Publications

PEER-REVIEWED CONFERENCE PAPERS

Jean Y. Song, Stephan J. Lemmer, Michael Xieyang Liu, Shiyan Yan, Juho Kim, Jason J. Corso, Walter S. Lasecki. 2019. Popup:

[C.2] Reconstructing 3D Video Using Particle Filtering to Aggregate Crowd Responses. ACM International Conference on Intelligent User Interfaces (IUI 2019).

[C.1] Yu-Wei Chao, Yunfan Liu, **Xieyang Liu**, Huayi Zeng, Jia Deng. 2018. Learning to Detect Human-Object Interactions. 2018 IEEE Winter Conference on Applications of Computer Vision (WACV 2018).

WORKSHOP PAPERS

Michael Xieyang Liu, Nathan Hahn, Angelina Zhou, Shaun Burley, Emily Deng, Aniket Kittur, Brad A. Myers. 2018. UNAKITE:

[W.2] Support Developers for Capturing and Persisting Design Rationales When Solving Problems Using Web Resources. DTSHPS'18

Workshop on Designing Technologies to Support Human Problem Solving, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2018).

Michael Xieyang Liu, Shaun Burley, Emily Deng, Angelina Zhou, Aniket Kittur, Brad A. Myers. 2018. Supporting Knowledge

[W.1] Acceleration for Programming from a Sensemaking Perspective. Sensemaking Workshop @ CHI Conference on Human Factors in Computing Systems (CHI 2018)

POSTERS

[P.1] Jane Hsieh, **Michael Xieyang Liu**, Brad A. Myers, Aniket Kittur. 2018. An Exploratory Study of Web Foraging to Understand and Support Programming Decisions. *IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2018)*.

Research Experience

Graduate Research Assistant (advised by Dr. Brad A. Myers & Dr. Aniket Kittur)

Aug. 2017 - Present

HUMAN-COMPUTER INTERACTION INSTITUTE, CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA, USA

• Working on UNAKITE, a system that scaffolds developers in making decisions using information from various web sources and embedding their decision-making structures into their code.

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Mar. 2016 - May. 2017

CROWDS AND MACHINES LAB, UNIVERSITY OF MICHIGAN

Ann Arbor, MI, USA

· Worked on crowd-powered interdisciplinary projects that address novel and promising research questions.

Research Assistant (advised by Dr. Jia Deng)

Sept. 2015 - Apr. 2016

VISION & LEARNING LAB, UNIVERSITY OF MICHIGAN

Ann Arbor, MI, USA

 Worked on a computer vision based toolkit that boosts performance on human-object interation detection by exploiting human-object spatial relations.

Teaching Experience_

Instructional Aide - EECS484 Database Management Systems (twice)

Fall 2016, Winter 2017

University of Michigan

Ann Arbor, MI, USA

Prepared and lead weekly discussion sessions and office hours. Prepared teaching materials and course projects. Graded assignments and exams.

Teaching Assistant - Vv255 Multivariate Calculus

Summer 2015

University of Michigan - Shanghai Jiao Tong University Joint Institute

Shanghai, China

• Developed discussion slides and in-class exercises, led weekly discussion sessions, held office hours, graded.

Students Mentored_

Jane Hsieh Summer 2018, Fall 2018

OBERLIN COLLEGE UNDERGRADUATE STUDENT

- Worked on studying programmers' web-foraging behaviors.
- Contributed to the development of the UNAKITE system.

Emily Deng Fall 2017

CMU MASTER'S STUDENT

· Worked on designing and carrying out interview studies with programmers that prob their programming behaviors and needs.

Shaun Burley Fall 2017

CMU MASTER'S STUDENT

· Worked on designing and carrying out interview studies with programmers that prob their programming behaviors and needs.

Selected Honors, Grants & Awards

SHF: Small: Knowledge Acceleration for Programming (\$500,000 over 3 years), NSF

Jun. 2018

James B. Angell Scholar, 94th Annual Honors Convocation, University of Michigan

Mar. 2017

EECS Scholar Award, 2017 EECS Honors & Awards Reception, University of Michigan

Mar. 2017

2016 Summer Undergraduate Research Experience (SURE) program, University of Michigan

May. 2016 Jul. 2015, Jul. 2016

Tang-Junyuan Fellowship (Top 2/250, \$50,000), UM-SJTU Joint Institute

Dean's List, University of Michigan

Dec. 2015, Apr. 2016

Basic Teaching Assistant Certificate, Center for Learning and Teaching, UM-SJTU Joint Institute

Aug. 2015

Dean's List, UM-SJTU Joint Institute

Dec. 2013, Aug. 2014, Dec. 2014, Aug. 2015

Fellowship for Outstanding Academic Performance, Shanghai Jiao Tong University

Jun. 2015

Meritorious Winner (Acceptance: 9%), COMAP Mathematical Contest in Modeling

Apr. 2015

Languages & Technical Skills

Languages English (Bilingual proficiency), Chinese (Native proficiency), German (Limited working proficiency)

Programming HTML, Javascript, CSS, Node.JS, Python, SQL, C/C++, Swift, Java, LaTeX, etc.

Web & App Development React, Redux, Angular, Bootstrap, PHP, Ionic, etc.

Standardized Test Results

TOEFL 116/120 (Listening: 29/30, Reading 30/30, Speaking: 28/30, Writing: 29/30) (taken in Sept. 2016)

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