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)

Aug. 2017 - Present

 ${\sf Carnegie\ Mellon\ University}, Human-Computer\ Interaction\ Institute\ (HCII), School\ of\ Computer\ Science\ (SCS)$

Pittsburgh, PA, USA

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

B.S. in Computer Science

Sept. 2015 - Apr. 2017

University of Michigan, Department of Electrical Engineering and Computer Science

Ann Arbor, MI, USA

• Advisor: Dr. Walter Lasecki

B.S.E. in Electrical and Computer Engineering

Sept. 2013 - Aug. 2017

University of Michigan – Shanghai Jiao Tong University Joint Institute

Shanghai, China

· Advisor: Dr. Jing Liu

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.

Undergraduate Researcher (advised by Dr. Walter Lasecki)

Mar. 2016 - May. 2017

CROWDS AND MACHINES LAB, UNIVERSITY OF MICHIGAN

Ann Arbor, MI, USA

• Worked on crowd & AI-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 interaction 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

Teaching Assistant - Vv255 Multivariate Calculus

Summer 2015

University of Michigan - Shanghai Jiao Tong University Joint Institute

Shanghai, China

Students Mentored

Jane Hsieh Summer 2018, Fall 2018, Spring 2019

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 probe their programming behaviors and needs.

Shaun Burley Fall 2017

CMU MASTER'S STUDENT

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

Selected Honors, Grants & Awards

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

Jun. 2018

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

Mar. 2017 Mar. 2017

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

May. 2016

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

Jul. 2015. Jul. 2016

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

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

Academic Service_____

Dean's List, University of Michigan

Paper Reviewing Conferences: ACM CHI (2019)

Languages & Technical Skills & Courses_

Languages English - Native or bilingual proficiency, Chinese (Mandarin) - Native or bilingual proficiency,

German - Limited working proficiency

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

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

Deep Learning & Al Pytorch, Tensorflow

Courses Machine Learning, Deep Learning, Database Management Systems, Information Security, Web Development

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