

Wanyu Liu Ph.D.

Curriculum Vitae

December 2018

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Date of birth: 06.05.1991

Nationality: Chinese

With Australian PR



I am a researcher in Human-Computer Interaction, using computational tools to design interaction techniques and to study human performance. My Ph.D. thesis brings Information Theory to HCI, captures the uncertainty and information in the communication process and explores the notion of combining human intelligence with machine power.

Education

Télécom ParisTech

Ph.D. in Human-Computer Interaction

Supervisors: Olivier Rioul, Michel Beaudouin-Lafon, and Yves Guiard

Paris, France

November 2018

University of Melbourne

Master of Information Systems: Computing & Information Systems

With honors

Melbourne, Australia

July 2015

Beijing Language and Culture University

Bachelor of Management: Information Management and Information Systems

With honors

Beijing, China

June 2013

Polytechnic of Leiria


Visiting student


Leiria, Portugal

August 2011

Publications

A full list of publications can be found on <https://scholar.google.com/citations?user=KA6Xe4wAAAAJ>

 **Wanyu Liu**, Olivier Rioul, Joanna McGrenere, Wendy Mackay, and Michel Beaudouin-Lafon. BIGFile: Bayesian Information Gain for Fast File Retrieval. ACM CHI '18.

 **Wanyu Liu**, Rafael Lucas D'Oliveira, Michel Beaudouin-Lafon, and Olivier Rioul. BIGnav: Bayesian Information Gain for Guiding Multiscale Navigation. ACM CHI '17.

Wanyu Liu, Gilles Bailly, and Andrew Howes. 2017. Effects of Frequency Distribution on Linear Menu Performance. ACM CHI '17.

Wanyu Liu, Olivier Rioul, Michel Beaudouin-Lafon, and Yves Guiard. Information-Theoretic Analysis of Human Performance for Command Selection. IFIP TC.13 INTERACT '17.

Zilu Liang, Bernd Ploderer, **Wanyu Liu**, Yukiko Nagata, James Bailey, Lars Kulik and Yuxuan Li. SleepExplorer: A Visualization Tool to Make Sense of Correlations between Personal Sleep Data and Contextual Factors. Personal and Ubiquitous Computing 2016.

Wanyu Liu, Bernd Ploderer, and Thuong Hoang. In Bed with Technology: Challenges and Opportunities for Sleep Tracking. ACM OZCHI '15.

Skills

- **Programming skills:** C++, C#, Swift, Objective-C, Java, JavaScript, HTML, CSS
- **Data analysis and modeling:** Python, R, Matlab
- **Hardware experience:** Kinect motion tracking, Tobii eye tracking
- **Language:** Chinese, English (Professional level), French (DELF B2: 85/100)

Experience

Research

Télécom ParisTech Paris, France
PhD researcher Nov 2015 - Nov 2018

Thesis: Information Theory as a Unified Tool for Understanding and Designing Human-Computer Interaction

Microsoft Research Centre for Social Natural User Interfaces Melbourne, Australia
Intern & Affiliated researcher Feb 2014 - Oct 2015

Topic: Challenges and Opportunities for Sleeping Tracking

Airbus (Beijing) Engineering Center Beijing, China
Intern Nov 2012 - Jun 2013

Topic: Designing for Risk Assessment Information Systems

Talks

Invited lecturer: The 4th ACM SIGCHI Summer School on Computational Interaction, Cambridge, UK, Aug 2018

Invited speaker: Journée LTCl, Université Paris-Saclay, Paris, France, Oct 2017

Invited speaker: Dagstuhl Seminar on Computational Interactivity, Germany, Jun 2017

Invited poster: IEEE ITA 2017 (Information Theory and Applications Workshop), San Diego, USA, Feb 2017

Visit

User Interfaces Group, Aalto University, Helsinki, Finland, April 2018

Student supervision

Jaahnvi Mohan (summer intern at LRI Université Paris-Sud)

Recognition

- ACM Conference on Human Factors in Computing Systems (CHI '17). Best of CHI Award (Top 1% of all submissions)
- ACM Conference on Human Factors in Computing Systems (CHI '18). Best Paper Honorable Mention Award (Top 5% of all submissions)
- First Prize of Best Scientific Contribution of Université Paris-Saclay Doctoral School in Computer Science, 2017

Service

- **Reviewer:** ACM CHI, ACM UIST, OZCHI, ACM IUI, etc. since 2015
- **Student volunteer:** New trends in User Expertise and Interactive Systems (UEIS 2017), Paris, Oct 2017