YUMENG HOU

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EDUCATION

Doctor of Philosophy in Digital Humanities	Expected 2024
École polytechnique fédérale de Lausanne (EPFL)	
Supervisor: Prof. Sarah Kenderdine	
Master of Science in Computer Science	2015 – 2017
École polytechnique fédérale de Lausanne (EPFL)	
Dissertation title: "Visualizing Personal Nutrition Intake and Emotions"	
Supervisor: Dr. Pearl Pu	
Bachelor of Engineering in Digital Media Technology	2010 – 2014
Zhejiang University	
Dissertation title: "Visualizing Topic Evolutions in Wikipedia"	
Supervisor: Prof. Wei Chen	
Exchange Scholar in Computer and Systems Sciences	2013 – 2014
Stockholm University	
RESEARCH EXPERIENCE	
Doctoral Researcher	2020
Doctoral rescarcies	2020 – present
Laboratory for Experimental Museology (eM+), DHI, EPFL	2020 – present
	2020 – present 2013 – 2015
Laboratory for Experimental Museology (eM+), DHI, EPFL	·
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant	·
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant	·
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant Visual analytics group of State Key Lab of CAD&CG, Zhejiang University TEACHING AND MENTORING	2013 – 2015
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant Visual analytics group of State Key Lab of CAD&CG, Zhejiang University TEACHING AND MENTORING Teaching Assistant, Cultural Data Sculpting	·
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant Visual analytics group of State Key Lab of CAD&CG, Zhejiang University TEACHING AND MENTORING	2013 – 2015 2020 – present
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant Visual analytics group of State Key Lab of CAD&CG, Zhejiang University TEACHING AND MENTORING Teaching Assistant, Cultural Data Sculpting Digital Humanities Institute (DHI), EPFL	2013 – 2015
Laboratory for Experimental Museology (eM+), DHI, EPFL Research Assistant Visual analytics group of State Key Lab of CAD&CG, Zhejiang University TEACHING AND MENTORING Teaching Assistant, Cultural Data Sculpting Digital Humanities Institute (DHI), EPFL Project Mentor	2013 – 2015 2020 – present

PUBLICATIONS AND INVENTIONS

Hou, Y., Kenderdine S., et al. (In press). Digitizing Intangible Cultural Heritage Embodied: state of the art. Journal on Computing and Cultural Heritage (JOCCH).

Adamou, A., **Hou Y.**, Picca D., et al. (2021). Ontology-mediated cultural contact in Southern Chinese martial arts. In *Proceedings of the International Joint Workshop on Semantic Web and Ontology Design for Cultural Heritage (SWODCH 2021*).

Kenderdine, S., Hibberd, L., Shaw, J., Chang, T.-Z., & **Hou, Y**. (in press). Archery Rites: Re-making Confucian Rites. *Chinese Archery Studies: Theoretical and Historical Approaches to a Martial Discipline*. Springer.

Xia, J., Chen, W., **Hou, Y.**, et al. (2016). *Dimscanner*: A relation-based visual exploration approach towards data dimension inspection. In *2016 IEEE Conference on Visual Analytics Science and Technology (VAST)* (pp. 81-90). IEEE.

Xia, J., **Hou, Y.**, Chen, Y. V., Qian, Z. C., Ebert, D. S., & Chen, W. (2017). Visualizing rank time series of wikipedia top-viewed pages. *IEEE computer graphics and applications*, 37(2), 42-53.

Invention: Xia, J., Chen, W., Hou, Y. An analysis method of multidimensional data (No. 15840696, 201707).

CONFERENCE PRESENTATIONS

Hou, Y. (2022). Augmenting knowledge exploration using agent-based models: A computational experiment with the *Hong Kong Martial Arts Living Archive*. Proposal submitted for presentation.

Hou, Y., Kenderdine, S. (2022). Encoding the Whole-of-Environment Knowledge for Intangible Cultural Heritage. In *CANTERBURY 2022: (IN)TANGIBLE HERITAGE(S)*. Proposal accepted for presentation.

Hou, Y., et al. (2021). Articulate Similarity: A Visual Search Framework For Embodied Knowledge In A Confucian Rites Video Archive. In *16th International Digital Curation Conference (IDCC21)*.

Hou, Y. (2021). Motion as meaning: Representing embodied knowledge in the multimodal cultural archives. In *DHCH@ISR 2021*.

PROFESSIONAL EXPERIENCE

Creative Tech Lead _box Interaction, Hangzhou, China	2019 – 2020
Product Manager RTC/Livestreaming PaaS Alibaba Cloud, Hangzhou, China	2017 – 2019
Digital Consumer Analyst EMEA Procter & Gamble, Geneva, Switzerland	2016 – 2017
UNIVERSITY SERVICE	
Research Seminar Organizer Organized the Swissuniversities DH seminar, Dec 2-3, 2021, EPFL, Lausanne	2021.09 – 12
PhD Student Representative	2021 – present
Doctoral School of Digital Humanities, EPFL	LOZZ present

EXHIBITIONS & INSTALLATIONS

ImmerscienceVR. An immersive learning environment. *Daning International Elementary School, Shanghai, China. Natural Origins of The Internet*. Installation Art. *Museum of Inspiration, Hangzhou, China.*

AquA. A Virtual Aquarium Motivating Knowledge Sharing. Médecins Sans Frontières (MSF), Geneva, Switzerland.

TECHNICAL SKILLS

Programming: Python, Java, JavaScript (D3.js, three.js, p5.js), R, C++, MySQL, processing, HTML/CSS, MATLAB.

Tools: Axure, InVision, Unity, Rhino, MAYA, Audition, AI, PS, Knime, Spotfire, MS Office.

LANGUAGES

Mandarin: Native or Bilingual Proficiency French: Limited Working Proficiency English: Full Professional Proficiency Cantonese: Elementary Proficiency

REFERENCES

Sarah Kenderdine, Full Professor at Laboratory for Experimental Museology & Director of EPFL-Pavilions, EPFL. **Jeffrey Shaw**, Chair Professor, Hong Kong Baptist University.

Martin Alois Rohrmeier, Assoc. Professor at Digital and Cognitive Musicology Lab & Director of EPFL-EDDH, EPFL.