YUMENG HOU

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EDUCATION

PhD in Digital Humanities, École polytechnique fédérale de Lausanne (EPFL)	Expected Oct 2024
 Thesis topic: "Towards Whole-of-Environment Knowledge Encoding for Chinese Marti Supervisor: Prof. Sarah Kenderdine (eM+) 	al Arts"
 Master of Science in Computer Science, École polytechnique fédérale de Lausanne (EPFL) Thesis title: "Visualizing Personal Nutrition Intake and Emotional Response" Supervisor: Dr. Pearl Pu (HCI Group) 	2015 – 2017
 Bachelor of Engineering in Digital Media Technology, Zhejiang University Thesis title: "Visualizing Topic Evolutions in Wikipedia" Supervisor: Prof. Wei Chen (VAI Group) 	2010 – 2014
Exchange Student in Computer and Systems Sciences, Stockholm University	2013 – 2014
RESEARCH EXPERIENCE	
Doctoral Researcher	2020 – present
Laboratory for Experimental Museology (eM+), DHI, EPFL	
	Apr – Oct 2022

PUBLICATIONS

Publication in Scientific Journals

Hou, Y.*, Kenderdine S., et al. (2022). Digitizing Intangible Cultural Heritage Embodied: state of the art. Journal on Computing and Cultural Heritage. https://doi.org/10.1145/3494837

Hou, Y.* (2021). Accessing, Representing, and Transmitting Cultural Heritage through Digital Archives: Challenges and Opportunities. Digital Humanities Research, 4(1), 77-91. http://dhr.ruc.edu.cn/CN/Y2021/V1/I4/77

Hou, Y.*, Kenderdine S. (2022). Accessing a multimodal archive of Southern Chinese martial arts through embodied cues. Journal of Documentation. Under Minor Revision.

Adamou, A.*, Hou, Y.*, Picca, D.*, et al. (2022). Ontology-mediated cultural contact in Southern Chinese martial arts. ACM Journal on Computing and Cultural Heritage. Under Major Revision.

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. https://doi.org/10.1109/MCG.2017.21

Peer-reviewed Conference Proceedings

Hou, Y.*, Kenderdine S. (In press). Encoding the Whole-of-Environment Knowledge for Intangible Cultural Heritage. AMPS Proceedings Series.

Picca, D.*, Adamou, A.*, Hou, Y., et al. (2022). Knowledge organization of the Hong Kong Martial Arts Living Archive to capture and preserve intangible cultural heritage. DIGITAL HUMANITIES 2022. July 25-29, Tokyo.

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

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. https://doi.org/10.1109/VAST.2016.7883514

Contributions to Books

Kenderdine, S.*, Hibberd, L., Shaw, J., Chang, T.-Z., & **Hou, Y**. (2021). Archery Rites: Re-making Confucian Rites. *Chinese Archery Studies: Theoretical and Historical Approaches to a Martial Discipline*. Springer.

TALKS & LECTURES & CONFERENCE PRESENTATIONS

"Towards digital preservation of the living heritage of traditional martial arts: the HKMALA methodology". In 2023 Global Digital Humanities Symposium, upcoming, online.

"Augmenting knowledge exploration using agent-based models". In *Martial Arts Studies Conference: Martial Arts, Tradition and Globalisation*, June 29 - July 2 2022, Lausanne, Switzerland.

"Articulate Similarity: A Visual Search Framework for Embodied Knowledge in A Confucian Rites Video Archive", 16th International Digital Curation Conference (IDCC21), April 19, 2021, online.

"Motion as meaning: Representing embodied knowledge in the multimodal cultural archives", *DHCH@ISR 2021*, June 7-9, 2021, Rome, Italy.

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.

TFACHING

TEACHING	
Lecture, "Visualizing Embodied Knowledge System", in course Cultural Data Sculpting, EPFL	Spring 2021
Lecture, "Computational Archives", in course Cultural Data Sculpting, EPFL	Spring 2022
Invited Lecture, "Al for Cultural Heritage and Computational Archives", in course Digital Art History: Current Trends and Experimental Applications, University of Basel	Spring 2022
Teaching Assistant, DH-404 Cultural Data Sculpting, 2021/2022/2023, EPFL	2021 – 2023
PROFESSIONAL EXPERIENCE	
Creative Tech Lead	2019 – 2020
_box Interaction, Hangzhou, China	
Product Manager RTC/Livestreaming PaaS	2017 – 2019
Alibaba Cloud, Hangzhou, China	
Digital Consumer Analyst EMEA	2016 – 2017
Procter & Gamble, Geneva, Switzerland	
UNIVERSITY SERVICE	
Seminar Organizer	2021.09 – 2021.12
Organized the Swissuniversities DH seminar, Dec 2-3, 2021, EPFL, Lausanne	

2021 - present

2012 - 2013

LANGUAGES

PhD Student Representative

Students' Union President

Doctoral School of Digital Humanities, EPFL

College of Computer Science and Technology, Zhejiang University