# **YUMENG HOU**

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# **EDUCATION**

École polytechnique fédérale de Lausanne (EPFL) Supervisor: Prof. Sarah Kenderdine Master of Science in Computer Science École polytechnique fédérale de Lausanne (EPFL) Dissertation: "Visualizing Personal Nutrition Intake and Emotions" Supervisor: Dr. Pearl Pu Bachelor of Engineering in Digital Media Technology Zhejiang University Dissertation: "Visualizing Topic Evolutions in Wikipedia" Supervisor: Prof. Wei Chen Exchange Scholar in Computer and Systems Sciences Stockholm University  IESEARCH EXPERIENCE  Doctoral Researcher Laboratory for Experimental Museology (eM+), DHI, EPFL Visiting Researcher Invited Description of Prof. Supervisor: Prof. Jeffrey Shaw Research Assistant Visual Analytics and Intelligence Group, State Key Lab of CAD&CG, Zhejiang University  EACHING AND MENTORING  Teaching Assistant, DH-404 Cultural Data Sculpting 2020-21/2021-22, EPFL Lecture, "Computational Archives", in course Cultural Data Sculpting, EPFL Lecture, "Computational Archives", in course Cultural Data Sculpting, EPFL Lecture, "Al for Cultural Heritage and Computational Archives", in course Digital Art History: Current Trends and Experimental Applications, University of Basel Project Memtor School of Computer and Communication Sciences & Digital Humanities, EPFL  • Mentored two graduate students for their semester projects.  • Mentored six graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their cross-disciplinary course projects.  • Mentored two graduate students for their semester projects.  • Mentored two graduate students for their semester projects.  • Mentored Six graduate stude		
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Master of Science in Computer Science  £cole polytechnique fédérale de Lussanne (EPFL)  Dissertation: "Visualizing Personal Nutrition Intake and Emotions"  Supervisor: Dr. Pearl PU  Bachelor of Engineering in Digital Media Technology  Zhejiang University  Dissertation: "Visualizing Topic Evolutions in Wikipedia"  Supervisor: Prof. Wei Chen  Exchange Scholar in Computer and Systems Sciences  Stockholm University  EESEARCH EXPERIENCE  Doctoral Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Researcher  Loboratory for Experimental Museology (eM+), DHI, EPFL  Visiting Research Assistant  Visual Analytics and Intelligence Group, State Key Lab of CAD&CG, Zhejiang University  EACHING AND MENTORING  Teaching Assistant, DH-404 Cultural Data Sculpting 2020-21/2021-22, EPFL  Eaching Assistant, DH-404 Cultural Data Sculpting 2020-21/2021-22, EPFL  Eaching Assistant, DH-404 Cultural Data Sculpting Data Sculpting, EPFL  Experimental Applications, University of Basel  Project Mentor  School of Computer and Communication Sciences & Digital Humanities, EPFL  Mentored two graduate students for their semester projects.  * Mentored wa graduate students for their semester projects.  * Mentored six graduate students for their semester projects.  * Mentored six graduate students for their semester projects.  * Mentored six graduate students for their semester projects.  ** Mentored six graduate students for their semester projects.  ** Mentored six graduate students for their semester projects.  ** Mentored six graduate students for their semester projects.  ** Mentored six graduate students for their semester projects.  ** Mentored six graduate students for their cross-disciplinary course projects.  **	École polytechnique fédérale de Lausanne (EPFL)	
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<ul> <li>Mentored six graduate students for their cross-disciplinary course projects.</li> <li>PROFESSIONAL EXPERIENCE</li> <li>Creative Tech Lead        </li></ul>	School of Computer and Communication Sciences & Digital Humanities, EPFL	
Creative Tech Lead _box Interaction, Hangzhou, China Digital Strategist (part-time) NewStyle Media Group, Beijing, China  Product Manager RTC/Livestreaming PaaS Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2019 - 2020 2019 - 2020 2017 - 2019 2016 - 2017	<ul> <li>Mentored two graduate students for their semester projects.</li> </ul>	
Creative Tech Lead _box Interaction, Hangzhou, China Digital Strategist (part-time) NewStyle Media Group, Beijing, China Product Manager RTC/Livestreaming PaaS Alibaba Cloud, Hangzhou, China Digital Consumer Analyst EMEA  2019 – 2020 2019 – 2020 2017 – 2019 2016 – 2017	<ul> <li>Mentored six graduate students for their cross-disciplinary course projects.</li> </ul>	
_box Interaction, Hangzhou, China  Digital Strategist (part-time) 2019 – 2020  NewStyle Media Group, Beijing, China  Product Manager RTC/Livestreaming PaaS 2017 – 2019  Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA 2016 – 2017	PROFESSIONAL EXPERIENCE	
Digital Strategist (part-time)  NewStyle Media Group, Beijing, China  Product Manager RTC/Livestreaming PaaS  Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2019 – 2020  2017 – 2019  2016 – 2017	Creative Tech Lead	2019 – 2020
NewStyle Media Group, Beijing, China  Product Manager RTC/Livestreaming PaaS  Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2017 – 2019  2016 – 2017	_box Interaction, Hangzhou, China	
Product Manager RTC/Livestreaming PaaS  Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2017 – 2019  2016 – 2017	Digital Strategist (part-time)	2019 – 2020
Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2016 – 2017	NewStyle Media Group, Beijing, China	
Alibaba Cloud, Hangzhou, China  Digital Consumer Analyst EMEA  2016 – 2017	Product Manager RTC/Livestreaming PaaS	2017 – 2019
Digital Consumer Analyst EMEA 2016 – 2017	Alibaba Cloud, Hangzhou, China	
·	Digital Consumer Analyst EMEA	2016 – 2017
	Procter & Gamble, Geneva, Switzerland	

#### **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

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.** (2022). Augmenting knowledge exploration using agent-based models: A computational experiment with the Hong Kong Martial Arts Living Archive. *7th International Martial Arts Studies Conference*. June 29 - July 2 2022, Lausanne, Switzerland.

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. In *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 & INVENTIONS

Encoding the Whole-of-Environment Knowledge for Intangible Cultural Heritage. *CANTERBURY 2022:* (IN)TANGIBLE HERITAGE(S). June 15-17 2022, Canterbury, UK.

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.

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

#### **GRANTS**

**Students' Union President** 

Collaborative Research on Science and Society (CROSS) program, EPFL-UNIL EPFL Doc.Mobility grant, jointly funded by Swissuniversities and EPFL	2021 2022
UNIVERSITY SERVICE	
Research Seminar Organizer Organized the Swissuniversities DH seminar, Dec 2-3, 2021, EPFL, Lausanne	2021.09 – 2021.12
PhD Student Representative Doctoral School of Digital Humanities, EPFL	2021 – present

2012 - 2013

College of Computer Science and Technology, Zhejiang University

#### **OTHER PROJECTS**

Natural Origins of The Internet. Installation Art. Museum of Inspiration, Hangzhou, China.

Hibachi. An Elegant Connected Self-heating Lunchbox. CHIC Program, Switzerland.

MOOCViz. Web-based Interactive Visualization of MOOC Clickstream Data. EPFL, Lausanne, Switzerland.

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 English: Full Professional Proficiency French: Limited Working Proficiency Cantonese: Elementary Proficiency