

# Xinyue Chen

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## Research Interests

Social Network, Knowledge Collaboration, Human Computer Interaction, Social Computing

## Education

- 09/2017-07/2021 **Peking University**  
B. S. in Information Management and Information System (Major) (GPA 3.61), Rank 5/73  
B. S. in Business Management (Minor), Guang Hua Management School
- 07/2020-08/2020 **University of California-Davis**  
Global Research and Education in Advanced Technologies Program

## Publications

### Conference Papers

- [C.3] Si Chen\*, **Xinyue Chen\***, Zhicong Lu, Yun Huang. "My People, My Culture, My Hometown": Large Scale Video Blogging Practice by Ethnic Minorities in China. (In submission to **CSCW 2021**)
- [C.2] **Xinyue Chen**, Xu Wang. "I can't distract myself from talking to understand others": Unpacking the Challenges to Achieve Mutual Understanding in Video-based Project Discussions. (In submission to **CHI 2021**) [\[pdf\]](#)
- [C.1] **Xinyue Chen**, Si Chen, Xu Wang, and Yun Huang. "I was afraid, but now I enjoy being a streamer!": Understanding the Challenges and Prospects of Using Live Video Streaming for Online Education. In Proceeding of CSCW 2020 (**Honorable Mention Award** 🏆) [\[pdf\]](#)

### Journal Papers

- [J.3] **Xinyue Chen**, Yixin Chen, Hanqi Peng. The knowledge diffusion of scale-free networks. *Library & Information*. (In press in a Chinese top-tier journal)
- [J.2] Yixin Chen, **Xinyue Chen**, Yi Liu, Hanzhen Wang, Yang Xu. Research on rumor propagation and source detection based on SIDR model. *Data Analysis and Knowledge Discovery*:1-20[2020-09-20]. (a Chinese top-tier journal) [\[link\]](#)
- [J.1] Yixin Chen, **Xinyue Chen**, Yan Lyu, Tiekui Han, Yang Xu. Exploring Public Opinion Twist on Sina Micro-blog with Improved Hegselmann-Krause Model. *Information Studies: Theory & Application*: 1-17[2019-11-25]. (a Chinese top-tier journal) [\[link\]](#)

### Workshops

- [W.1] Yixin Chen, **Xinyue Chen\***, Hanqi Peng. Knowledge Evolutionary Path Analysis: Case Study of "Scale-Free Networks". Joint Conference on Digital Libraries (JCDL 2020), Workshop on Data-driven Smart Library Service in China. (\*Corresponding authors)

## Research Experiences

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- 10/2020-Present **Computer Science, National University of Singapore**  
*Research Intern (remote), NUS-HCI Lab*, Supervisor: [Shendong Zhao](#)
- Examined visual behavior patterns and their influence on users' receptivity to microlearning and supporting mobile interaction on the move.
  - Worked on data analysis and paper revision.
- 06/2020-Present **Computer Science and Engineering, University of Michigan at Ann Arbor**  
*Research Intern (remote), Life Long Learning Lab*, Supervisor: [Xu Wang](#)
- Unpacked and addressed the challenges in achieving common grounds and mutual understanding in video-based group discussion.
  - Conducted two successive studies. The first one was a need-finding study using qualitative method, which is in submission of CHI 2021 [C.2]. The second study is being conducted currently. I drew the storyboard and tested user need by speed dating, and also designed a chat-bot embedded in Zoom to enhance mutual understanding.
- 02/2020-Present **School of Information Sciences, University of Illinois at Urbana-Champaign**  
*Research Intern (remote), Social Computing Systems Lab*, Supervisor: [Yun Huang](#)  
*Studied two projects:*
1. Investigated challenges and prospects of using live streaming for online education. Interviewed 15 teachers and 18 students from diverse backgrounds, then conducted the data analysis using qualitative method. I was also responsible for the paper writing [C.1].
  2. Unpacked how Chinese ethnic minorities used video blogging for cultural sustainability through interview and content analysis. Provided design implications for technology to empower ethnic minority members to construct identity in social media [C.3].
- 06/2019-Present **Department of Information Management, Peking University**  
*Research Assistant, KVision Lab*, Supervisor: [Pengyi Zhang](#)  
*Studied two projects:*
1. Identified roles and knowledge collaboration in group interview. Used machine learning algorithm to identify different roles in group discussion in terms of speech act factors, and analyzed knowledge collaboration behavior.
  2. Investigated the health information behavior of parents of children with Autism Spectrum Disorder (ASD). Conducted the interview and data analysis.
- 09/2019-02/2020 **Department of Information Management, Peking University**  
*Project Leader, Course Project of Informetrics*
- Depicted knowledge diffusion of Research on Scale-free Network by metadata in WOS.
  - Described the temporal characteristics of knowledge diffusion [J.3] and extracted the main path of diffusion network [W.1].
- 09/2019-01/2020 **Department of Information Management, Peking University**  
*Research Assistant, Information System Lab*, Supervisor: [Bolin Hua](#)
- Developed an Q&A system for the Chinese subject test.
  - Used LSTM and GRU to developed features of ill-formed sentence recognition and thesis generation. The accuracy rate of ill-formed sentence recognition reached 68%.
- 11/2018-03/2020 **Department of Information Management, Peking University**  
*Co-author, Challenging Academic Contests*, Supervisor: [Yang Xu](#)
- Explored the characteristics of rumor propagation and detecting the source of rumor by Beam search algorithm. Published in a Chinese top-tier journal [J.2].
  - Depicted the phenomenon of public opinion twist on Sina Microblog and improved Hegselmann-Krause model to better depict the phenomenon of public opinion twist. Published in a Chinese top-tier journal in China [J.1].

## Awards and Honors

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- 10/2020 CSCW 2020 Honorable Mention Award (Top 5%)  
09/2020 Robin Li Scholarship (1/73) (\$3,000)  
06/2020 First Prize, 28th Challenging Academic Contest, PKU (Top 5%)  
09/2019 PKU Third-class Scholarship (Top 10%)  
09/2019 Merit Student, PKU (Top 10%)  
09/2018 Excellent Social Practice Leader, PKU (Top 5%)

## Working Experiences

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- 06/2019-08/2019 **Research Intern on User Experience, Tencent, Beijing, China**  
- Investigated user experiences and user needs of *Tencent Sports* by survey and interview.
- 03/2019-06/2019 **Product Manager Intern, Alibaba, Beijing, China**  
- Assisted in the product design for a sleep-supported app "*Wandering Sleep*".  
- Conducted need finding, persona design, prototype design.

## Teaching Experiences

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- 09/2020-Present **Teaching Assistant for the Course *Information Organization*, Peking University**  
- Led the weekly discussions (1.5 hours) for courses.  
- Guided the mid-term and final-term group assignments, including revising and grading.
- 01/2019-02/2019 **Volunteer English Teacher in *Tu Zhu Junior High School*, Chongqing**  
- Taught junior high school students in learning English words and reading comprehension.  
- Introduced learning methods to help children in poor areas.

## Leadership Experiences

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- 09/2018-07/2019 **Director of Social Practice, Department of Information Management, Peking University**  
- Organized field trips in winter and summer breaks to remote areas in China.  
- Gained a deep understanding of E-commerce in rural areas by field studies.
- 07/2018-09/2019 **Director of Innovation and Start-up Society, Student Career Center, Peking University**  
- Managed a social public account on WeChat with more than 10,000 followers and posted articles about innovation and start-up. The followers increased by 3,000 in my term.

## Language & Skills

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**Language:** TOFEL 104 (R25, L28, S23, W28)

**GRE:** 325 (V158+Q167) + AW3.5

**Research Methodology:** Interview study; Survey; Quantitative analysis; Participatory design

**Programming:** C/C++; Python; JAVA; PHP; HTML; Java Script