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RESEARCH INTERESTS	Understanding the privacy implications when users interact with a computing system; Designing for multiple stakeholders' privacy needs; Developing and evaluating various privacy-enhancing tools. Keywords: Human-Computer Interaction; Computer-Supported Cooperative Work; Usable Privacy; Internet of Things; Multi-Stakeholders; Design
ACADEMIC APPOINTMENT	Carnegie Mellon University, Pittsburgh, PA 01/2020 to Now <ul style="list-style-type: none">Post-Doctoral Fellow (Supervisor: Dr. Norman Sadeh)
EDUCATION	Syracuse University, Syracuse, NY 05/2020 <ul style="list-style-type: none">Ph.D. in Information Science and Technology (Advisor: Dr. Yang Wang)Dissertation: Designing a Privacy Awareness System for the Multi-Stakeholder Environment in Smart HomesCommittee: Yang Wang, Jason Dedrick, Joon S. Park, Bryan Semaan, Josh Introne, Florian Schaub (University of Michigan) University of Washington, Seattle, WA 07/2014 <ul style="list-style-type: none">Master of Science in Information Management Harbin Institute of Technology, China 07/2012 <ul style="list-style-type: none">Bachelor of Business Administration
GRANTS	Syracuse iSchool Research Grant (2019, \$6,500) Syracuse iSchool Research Fellowship (2018, \$12,000) National Science Foundation I-Corp Grant, (2018, \$50,000, Entrepreneurial Lead) Syracuse iSchool Research Grant (2017, \$6,000) Katzer Research Grant (2016, \$6,000)
AWARDS & RECOGNITIONS	Syracuse University iSchool Dissertation Award, 2020 Best Paper Honorable Mention Award, ACM CSCW 2019 Best Paper Nomination, HICSS 2019 USENIX Student Travel Award (2019, \$2,360) The Graduate Student Office Travel Award (2018, \$300) The University of Houston Privacy and Security Workshop Award (2018, \$1,400) National Science Foundation Travel Award (2017, \$175) PoPETS Student Travel Award (2016, \$900) Katzer Research Fund (2016, \$6,000) Graduate School Fund for Excellence and Innovation (2014, \$400) Mary Hotchkiss Endowed Fellowship (2014, \$1,000)
PUBLICATIONS	Journal Papers

- J5.  **Yao, Y.**, Basdeo, J. R., Mcdonough, O. R., Wang, Y. Privacy Perceptions and Designs of Bystanders in Smart Homes. In Proceedings of the ACM on Human-Computer Interaction, Vol 3. CSCW 2019. **(Best Paper Honorable Mention Award)**
- J4. Huang, Y., Sang, Y., Wu, Q., **Yao, Y.** Higher Education Check-Ins: Exploring the User Experience of Hybrid Location Sensing. In Proceedings of the ACM on Human-Computer Interaction, Vol 3. CSCW 2019
- J3. Barbosa, N. M., Park, J. S., **Yao, Y.**, Wang, Y. “What if?” Predicting Individual Users’ Smart Home Privacy Preferences and Their Changes. In *Proceedings on Privacy Enhancing Technologies (PoPETS)*. 2019.4. (Acceptance Rate: 19%)
- J2. Wang, Y., Xia, H., **Yao, Y.**, Huang, Y. Flying Eyes and Hidden Controllers: A Qualitative Study of People’s Privacy Perceptions of Civilian Drones in the US. *Proceedings on Privacy Enhancing Technologies (PoPETS)*. 2016 (3):1–19. (Acceptance Rate: 19%)
- J1. Scholl, H. J., Wang, K., Wang, Y., Woods, G., Xu, D., **Yao, Y.**, & Krmar, H. (2014). Top soccer teams in cyberspace: Online channels for services, communications, research, and sales. *Journal of Marketing Analytics*, 2(2), 98-119.

Conference Proceedings

(In computer science and HCI fields, conferences are highly selective and intended for archival papers only)

- C8. **Yao, Y.**, Basdeo, J., Kaushik, S., and Wang, Y. Defending My Castle: A Co-Design Study of Privacy Mechanisms for Smart Homes. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*. ACM.
- C7.  **Yao, Y.**, Huang, Y., & Wang, Y. (2019, January). Unpacking People’s Understandings of Bluetooth Beacon Systems-A Location-Based IoT Technology. In *Proceedings of the 52nd Hawaii International Conference on System Sciences*. **(Best Paper Nomination)**
- C6. **Yao, Y.**, Xia, H., Huang, Y., & Wang, Y. (2017, May). Privacy mechanisms for drones: Perceptions of drone controllers and bystanders. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems* (pp. 6777-6788). ACM.
- C5. **Yao, Y.**, Xia, H., Huang, Y., & Wang, Y. (2017, May). Free to fly in public spaces: Drone controllers’ privacy perceptions and practices. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems* (pp. 6789-6793). ACM.
- C4. **Yao, Y.**, Lo Re, D., & Wang, Y. (2017, February). Folk models of online behavioral advertising. In *Proceedings of the 2017 ACM Conference on*

Computer Supported Cooperative Work and Social Computing (pp. 1957-1969). ACM.

- C3. Huang, Y., Huo, S., **Yao, Y.**, Chao, N., Wang, Y., Grygiel, J., & Sawyer, S. (2016, June). Municipal police departments on Facebook: What are they posting and are people engaging? In *Proceedings of the 17th International Digital Government Research Conference on Digital Government Research* (pp. 366-374). ACM.
- C2. Guajardo, V., **Yao, Y.**, Bayo Urban, I. and Gomez, R. (2014). CasaCare.org: A sociotechnical platform for women immigrant workers in the home care industry. *11th Community Informatics Conference CIRN*, Prato, Italy, October 2014.
- C1. Jurisch, M., Krcmar, H., Scholl, H. J., Wang, K., Wang, Y., Woods, G., Xu, D., & **Yao, Y.** (2014, January). Digital and social media in pro sports: analysis of the 2013 UEFA top four. In *Proceedings of the 47th Hawaii International Conference on System Sciences* (pp. 3073-3082). IEEE.

Workshop Organized/Papers

- W6. **Yao, Y.**, Chouhan, C., Wong, R., Emami-Naeini, P., Merrill, N., Page, X., Wang, Y., Wisniewski, P. Ubiquitous Privacy: Research and Design for Mobile and IoT Platforms. To appear at *Companion of the 2019 ACM Conference on Computer Supported Cooperative Work and Social Computing*. ACM. Austin, TX, November 2019.
- W5. Ahmed, T., Barbosa, N. M., Calandrino, J., Coventry, L., Lerner, A., Marsh, A., Wang, Y., **Yao, Y.** 4th Workshop on Inclusive Privacy and Security (WIPS) – Privacy and Security for Everyone, Anytime, Anywhere. In *the 15th Symposium on Usable Privacy and Security (SOUPS 2019)*, Santa Clara, CA, August 2019.
- W4. Badillo-Urquiola, K., **Yao, Y.**, Ayalon, O., Knijnenurg, B., Page, X., Toch, E., Wang, Y., & Wisniewski, P. J. (2018, October). Privacy in Context: Critically Engaging with Theory to Guide Privacy Research and Design. In *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing* (pp. 425-431). ACM. Jersey City, NJ, November 2018.
- W3. **Yao, Y.** Exploring a Speculative Design Approach for Inclusive Privacy and Security. *3rd Workshop on Inclusive Privacy and Security (WIPS)*, Baltimore, MD, August 2018.
- W2. Wang, Y., **Yao, Y.**, Whose Privacy? The Case of Drone Controllers and Bystanders. *Networked Privacy Workshop of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2017)*, Portland, OR, February 2017.
- W1. **Yao, Y.**, Personalized Privacy Assistant to Protect People’s Privacy in Smart Home Environment. *Networked Privacy Workshop of the ACM*

*Conference on Human Factors in Computing Systems (CHI 2018),
Montreal, QC, Canada, April 2018.*

Extended Abstract/Posters

- P8. Huang, Y., Sang, Y., Wu, Q., & **Yao, Y.** (2019, April). Studying User Experience of a Hybrid Location Sensing System. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*. ACM.
- P7. Huang, Y., Wu, Q., & **Yao, Y.** (2018, October). Bluetooth Low Energy (BLE) Beacons Alone Didn't Work!. In *Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers* (pp. 62-65). ACM.
- P6. **Yao, Y.**, Bort, J., & Huang, Y. (2017, May). Understanding Danmaku's Potential in Online Video Learning. In *Proceedings of the 2017 CHI conference extended abstracts on human factors in computing systems* (pp. 3034-3040). ACM.
- P5. **Yao, Y.**, Huang, Y., Wang, Y. Unpacking People's Understandings of Bluetooth Beacon. *The 14th Symposium on Usable Privacy and Security*, Baltimore, MD, August 2018.
- P4. **Yao, Y.**, Xia, H., Kaushik, S., Wang, Y. Design and Evaluation of an Information-Based Web Tracking Blocking Mechanism. *The Federal Trade Commission PrivacyCon*, Washington D.C., February 2018.
- P3. **Yao, Y.**, Xia, H., Kaushik, S., Wang, Y. Design and Evaluation of an Information-Based Web Tracking Blocking Mechanism. *Great Lake Security Day*, Rochester, NY, September 2017.
- P2. Huang, Y., **Yao, Y.**, Bort, J., Wu, Q., Danmaku: Understanding its Usage in China and its Broader Potential. *CSCW in China and Beyond Workshop of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2017)*, Portland, OR, February 2017.
- P1. Wang, Y., Xia, H., **Yao, Y.**, Huang, Y. Flying Eyes and Hidden Controllers: A Qualitative Study of People's Privacy Perceptions of Civilian Drones in the US. *The 12th Symposium on Usable Privacy and Security (SOUPS2016)*, Denver, CO, June 2017.

Magazine Articles

- M1. Walker, A., **Yao, Y.**, Geeng, C., Hoyle, R., and Wisniewski, P. (October 2019). Moving beyond 'one size fits all': research considerations for working with vulnerable populations. *Interactions* 26, 6 (October 2019), 34-39. DOI: <https://doi.org/10.1145/3358904>

Invited/Conference Talks

- T12. “Privacy Perceptions and Designs of Bystanders in Smart Homes.”
ACM CSCW, Austin, TX, November 2019
- T11. **INVITED:** “‘What if?’ Predicting Individual Users’ Smart Home Privacy Preferences and Their Changes.”
Federal Trade Commission (FTC) PrivacyCon, Washington D.C., June 2019
- T10. “Defending My Castle: A Co-Design Study of Privacy Mechanisms for Smart Homes.”
ACM CHI, Glasgow, UK, May 2019
- T9. “Explore Privacy in Smart Homes from a Multi-Stakeholder Perspective.”
iConference, Baltimore, MD, March 2019
- T8. **INVITED:** “Defending My Castle: A Co-Design Study of Privacy Mechanisms for Smart Homes.”
Syracuse University Graduate Seminar, Syracuse, NY, October 2018
- T7. “Exploring a Speculative Design Approach for Inclusive Privacy and Security.”
Inclusive Privacy and Security Workshop, SOUPS, Baltimore, MD, August 2018
- T6. “Privacy mechanisms for drones: Perceptions of drone controllers and bystanders.”
ACM CHI, Denver, CO, May 2017
- T5. “Free to fly in public spaces: Drone controllers' privacy perceptions and practices.”
ACM CHI, Denver, CO, May 2017
- T4. “Folk models of online behavioral advertising.”
ACM CSCW, Portland, OR, February 2017
- T3. “Personalized Privacy Assistant to Protect People’s Privacy in Smart Home Environment.”
Networked Privacy Workshop, ACM CHI, Montreal, QC, May 2018
- T2. “Whose Privacy? The Case of Drone Controllers and Bystanders.”
Networked Privacy Workshop, ACM CSCW, Portland, OR, February 2017
- T1. “Digital and social media in pro sports: analysis of the 2013 UEFA top four.”
HICSS, Big Island, HI, January 2014

Doctoral Colloquium

D2. ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), Austin, TX, November 2019

D1. iConference, College Park, MD, March 2019

TEACHING EXPERIENCE

Teaching Assistant

- IST 800 Privacy Policy, Law, and Technology, Doctoral-level, Spring 2018
Facilitated in-class discussion
- IST 649 Human Interaction w/Computers, Master-level, Fall 2017
Gave guest lecture on prototyping; led in-class paper discussion
- IST 719 Information Visualization, Master-level, Spring 2016
Gave guest lecture on creating interactive plots using R and D3.js; led in-class discussion and exercise
- IST 687 Applied Data Science, Master-level, Fall 2015
Gave guest lecture on data cleaning using R; led in-class exercises; hold weekly office hours

Students Supervision

- Smirity Kaushik, *Master student in Information Management, Syracuse University (currently a Privacy Analyst at Earnest & Young)*
- Charlotte Emily Price, *Master student in Library Science, Syracuse University*
- Justin Reed Basdeo, *Undergraduate student in Industrial Design, Syracuse University*
- Oriana Rosata McDonough, *Undergraduate student in Informatics, Syracuse University*
- Jordan Hayes, *Independent researcher, Syracuse University*
- Casey Sawyer, *Undergraduate summer intern, University of the Pacific*
- Dylan Wiki Rogers, *Undergraduate summer intern, Bucknell University*

INDUSTRY EXPERIENCE

Taggle. Inc, Software Engineer, Seattle, WA 06/2014-05/2015

- Supported the development of an iPhone application, Prose, to encourage users to sharing their readings and writings
- Successfully implemented a social network web application individually to serve more than 10,000 users

SERVICE

iSchool Service at Syracuse University

- Doctoral Program Committee Member (2015-2016)
- Faculty Committee Member (2016-2017)
- Faculty Search Committee Member (2018-2019)
- Syracuse University School of Information Studies Dean Search Committee (2018-2020)

Organizing Committee

- Co-chair, Publicity, SOUPS 2020
- Lead organizers, Networked Privacy Workshop, ACM CSCW 2019
- Co-organizers, Inclusive Privacy and Security Workshop, SOUPS 2019
- Co-organizers, Networked Privacy Workshop, ACM CSCW 2018

Program Committee

- ACM CHI 2021
- ACM GROUP 2020
- ACM CHI Late-Breaking Work 2017, 2019
- ACM DIS Provocations and Works-in-Progress 2019
- AAAI Fall Symposium on Privacy and Language Technologies (PLT) 2016, 2018
- Workshop on Usable Security and Privacy (USEC) 2019
- AAAI Spring Symposium on Privacy-Enhancing AI and Language Technology (PAL) 2019

Invited Reviewer

- ACM CHI 2016, 2017, 2018, 2019, 2020
- ACM CHI Late-Breaking Work 2017, 2018, 2019
- ACM CSCW 2016, 2017, 2018, 2019
- iConference 2016, 2017, 2018, 2019
- PoPETS 2016
- SOUPS 2016, 2017, 2018
- IEEE Security & Privacy 2018
- ICIS 2018
- USEC 2019
- IMWUT 2019
- ACM GROUP 2020
- JASIST

Student Volunteer

- ACM CHI 2017, 2018