

PH.D. CANDIDATE · COMPUTER SCIENCE · HUMAN-COMPUTER INTERACTION

Virginia Tech, Gilbert Place 3201, Blacksburg, VA 24060

 $\begin{tabular}{ll} \blacksquare jfan12@vt.edu & \parallel https://jixiangfan.github.io/web/ & \blacksquare https://www.linkedin.com/in/jixiang-fan-16ab30127/ & \blacksquare https://www.linkedin.$

Education	
Virginia Tech PH.D COMPUTER SCIENCE Chair: Dr. D. Scott McCrickard Committee: Dr. Stephen H. Edwards Committee: Dr. Calvin J. Ribbens Committee: Dr. Manuel A. Pérez-Quiñones Committee: Dr. Alannah Oleson	Virginia, USA 2021.08 - present
Virginia Tech M.S COMPUTER SCIENCE Chair: Dr. D. Scott McCrickard Committee: Dr. Andrey Esakia Committee: Dr. Clifford A. Shaffer	Virginia, USA 2018.08 - 2020.05
University of Maryland - College Park B.S COMPUTER SCIENCE	Maryland, USA 2014.08 - 2018.05
University of Maryland - College Park B.S ECONOMICS	Maryland, USA 2014.08 - 2018.05
Certifications	
Spring 2024 Future Professoriate Certificate, Graduate School	Virginia Tech
Teaching Experiences	
Fall 2024 CS3604 Professionalism in Computing - 98 undergraduates, Leading Instructor Fall 2023 CS3604 Professionalism in Computing - 86 undergraduates, Leading Instructor	Virginia Tech Virginia Tech
Research Experiences	
Virginia Tech Advisor: Dr. Scott McCrickard Dissertation: "Leveraging Diary Studies as a Pedagogical Tool: Advancing Human-Computer Interaction	Blacksburg, VA 2022 - Present Education"
Virginia Tech Co-Advisors: Dr. Scott McCrickard, Dr. Samantha M Harden • Project: "FitEx - an evidence-based, 8-week, statewide walking and fruit/vegetable consumption program of individuals across the state."	Blacksburg, VA 2021 - 2022 m delivered to teams
Virginia Tech Advisor: Dr. Scott McCrickard	Blacksburg, VA 2018 - 2020

JUNE 2025 JIXIANG FAN · CURRICULUM VITAE

• Master Thesis: "FitAware - Fitness Group Tracking & Motivation System (IOS Application Development)"

Professional Experiences

INDUSTRY EXPERIENCES

2020.06-	Software Developer Engineer, Full-time Pactera Microsoft O365 Team Seattle United States
2021.06	Software Developer Engineer, Full-time Factera Microsoft 0363 Team Seattle Offited States
2019.06-08	Solutions Engineer, Internship Pactera Inc Seattle United States
2015.05-08	UI & UX Designer, Internship NTT Data Corporation Shanghai China

ACADEMIC EXPERIENCES

2025.08-12	Graduate Teaching Assistant, CS4094 Nature HCI CS Capstone Virginia Tech
2025.01-05	Graduate Teaching Assistant , CS1114 Introduction to Software Design (leading lab sessions) Virginia Tech
2024.06-07	Graduate Teaching Assistant , CS3724 Introduction to Human-Computer Interaction Virginia Tech
2024.01-05	Graduate Teaching Assistant, CS5714 Usability Engineering Virginia Tech
2024.12-01	Graduate Teaching Assistant , CS3604 Professionalism in Computing Virginia Tech
2023.01-05	Graduate Teaching Assistant , CS3724 Introduction to Human-Computer Interaction Virginia Tech
2022.08-12	Graduate Teaching Assistant , CS5724 Models and Theories of Human-Computer Interaction Virginia Tech
2022.06-07	Graduate Teaching Assistant , CS2114 Software Design & Data Structures (leading lab sessions) Virginia Tech
2022.01-05	Graduate Teaching Assistant, CS5525 Data Analytics I Virginia Tech
2021.08-12	Graduate Teaching Assistant , CS1114 Introduction to Software Design (leading lab sessions) Virginia Tech
2020.01-05	Graduate Teaching Assistant, CS3114 Data Structures & Algorithms Virginia Tech
2019.08-12	Graduate Teaching Assistant, CS5525 Data Analytics I Virginia Tech

Publications_

CONFERENCE FULL PAPERS

- [SIGCSE TS] Fan, J., Haqq, D., Saaty, M., Wang, W. L., & McCrickard, S. (2025). Diary Study as an Educational Tool: An Experience Report from an HCI Course. Proceedings of the 56th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2025), V. 1, 311–317. Association for Computing Machinery.
- [CSCW] Wang, W.L., Andrus, N., Hassan, T., Fan, J., Cao, Y., Asante, J., Saaty, M., Haqq, D. and McCrickard, D.S., 2025. Writing Home From Afar: Connecting Distant Families through Sharing of Outdoor Experiences with Digital Diaries. Proceedings of the ACM on Human-Computer Interaction, 9(7), pp.1-26.
- [EduCHI] Fan, J., Wang, W.L., Andrus, N., Cao, Y., Saaty, M., Ghasemi, S., Xia, L. and McCrickard, S., 2025, July. Enhancing HCI Capstone Courses Through Diary Study Methods: Feedback and Insights from Graduate-Undergraduate Collaboration. In Proceedings of the 7th Annual Symposium on HCI Education (pp. 1-9).
- [EduCHI] Fan, J., Saaty, M., & Mccrickard, D. S. (2024, June). Education in HCI Outdoors: A Diary Study Approach. In Proceedings of the 6th Annual Symposium on HCI Education (pp. 1-10).
- [WSDM] Xia, L., Chen, Y., Chen, X., Fan, J., Zan, Y., Li, X. and Li, Z. (2026) Constructing commonsense knowledge graph for persona consistency, Proceedings of the 19th ACM International Conference on Web Search and Data Mining.
- [IASDR] Xia, L., Li, X., Fan, J., & Fan, L. (2025). Designing AR-Based Warehouse Management Systems Using the PECI Framework: A Comparative User Study of Interface Performance and Experience. Proceedings of the IASDR 2025 Conference, Taipei, Taiwan, December 2–5, 2025.
- [IEEE FIE] Fan, J., Cao, Y., Wang, W. L., Andrus, N., Saaty, M., Ghasemi, S., Xia, L., Liu, S., & McCrickard, S. (2025). Enhancing Cross-level Collaboration in HCI Education through Diary Studies. Frontiers in Education 2025
- [IEEE FIE] Fan, J., Saaty, M., Dunlap, D., & McCrickard, D. S. (2024, October). Investigating an Automatic Assistant in Computer Ethics Education. Frontiers in Education 2024, Washington DC, USA.
- [IEEE FIE] Haqq, D., Fan, J., Saaty, M., Wang, W. L., Andrus, N., & McCrickard, D. S. (2024, October). Understanding Development of Social Games Through Diary Studies. Proceedings of the Frontiers in Education 2024, Washington DC, USA.
- [IEEE FIE] Oh, S., Zhao, J., Russo, C., Bolmer, M., Jeong, J., Fan, J., Cao, Y., Wang, W. L., Andrus, N., & McCrickard, S. (2025). Optimizing Diary Studies Learning Outcomes with Fine-tuned Large Language Models on the DiaryQuest Platform. Frontiers in Education 2025.

[HCII] Xia, L., Qin, Y., & Fan, J. (2024, June). Amplifying Language Learning Effects with Olfactory-Enhanced Virtual Reality: An Empirical Study. In International Conference on Human-Computer Interaction (pp. 190-204). Cham: Springer Nature Switzerland.

CONFERENCE SHORT PAPERS

- [CHI] Fan, J., Cao, Y., Saaty, M., Wang, W. L., Xia, L., Liu, H., & McCrickard, D. S. (2025, April). Understanding the Creation of Human-Virtual Entity Bonds through the AR Mobile Game Peridot. In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (pp. 1-7).
- [CHI] Cao, Y., Hassan, T., Fan, J., Saaty, M., Wang, W. L., Stelter, T. L., & McCrickard, S. (2025, April). Listening to the Wild: Risk and Preparedness in Hiker-Wildlife Conflicts during Outdoor Recreation. In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (pp. 1-8).
- [CSCW] Fan, J., Zhao, J., Oh, S., Bolmer Jr, M., Lee, Y., Flammer, N., Chen, Y. and McCrickard, D.S., 2025, October. Structuring Collaborative Reflection: Integrating Diary Study and Focus Group Discussion. In Companion Publication of the 2025 Conference on Computer-Supported Cooperative Work and Social Computing (pp. 244-248).
- [ICER] Fan, J., & McCrickard, S. (2025, August). Diary Studies as a Pedagogical Tool for Human-Computer Interaction Education. In Proceedings of the 2025 ACM Conference on International Computing Education Research V. 2 (pp. 11-11).
- [CHI Play] Wang, W. L., Haqq, D., Saaty, M., Cao, Y., Fan, J., Patel, J. V., & McCrickard, D. S. (2023, October). Chatterbox Opener: A Game to Support Healthy Communication and Relationships. In Companion Proceedings of the Annual Symposium on Computer-Human Interaction in Play (pp. 43-48).

MENTORED UNDERGRADUATE ACM STUDENT RESEARCH COMPETITION

- [SIGCSE TS] Zhao, J., Horrall, J., Gaudian, W., Jordan, P., Chavan, P., Rana, A., & Snr, Y. (2025). DiaryQuest: A Web-Based Learning System Utilizing Diary Study. Proceedings of the 56th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2025), V. 2, 1765. Association for Computing Machinery.
- [CHI] Oh, S., Zhao, J., Russo, C., & Bolmer Jr, M. (2025, April). Boosting Diary Study Outcomes with a Fine-Tuned Large Language Model. In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (pp. 1-7).

Presentations			
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PANEL

McCrickard, D. S., Olsen, M., Seyam, M., Shrestha, C., & **Fan, J.** (2024). Making Voices Heard: Classroom Tools and Techniques for Augmenting Student Opinions. Panel discussion presented at the ACM Capital Region Celebration of Women in Computing (CAPWIC 2024), University of Virginia, April 6, 2024.

WORKSHOP PRESENTATIONS

Fan, J. (2025). Integrating Disability Considerations into Design Raising Awareness and Building Inclusivity. Oral presentation: SIGCSE TS 2025 - Accessibility and Disability in CS Education, Pennsylvania, United States.

PAPER PRESENTATIONS

- **Fan, J.** (2025). Enhancing HCI Capstone Courses Through Diary Study Methods: Feedback and Insights from Graduate-Undergraduate Collaboration. Oral presentation: EduCHI 2025, Indiana, United States.
- **Fan, J.** (2025). Diary Study as an Educational Tool: An Experience Report from an HCI Course. Oral presentation: SIGCSE TS 2025, Pennsylvania, United States.
- Fan, J. (2024). Investigating an Automatic Assistant in Computer Ethics Education. Oral presentation: FIE 2024, Washington, D.C., United States.
- Fan, J. (2024). Understanding Development of Social Games Through Diary Studies. Oral presentation: FIE 2024, Washington, D.C., United States.
- Fan, J. (2024). Education in HCI Outdoors: A Diary Study Approach. Oral presentation: EduCHI 2024, New York, United States.

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2025.01-05	Zhao, J., Oh, S., Bolmer, M., Lee, Y., Flammer, N., & Chen, Y., Diary Study Reflection - Jigsaw Learning Strategy HCI Capstone Course CSCW 2025 Poster	Virginia Tech
2024.08-12	Oh, S., Zhao, J., Russo, C., Bolmer, M., & Jeong, J., Fine-Tuning Large-Language Models for Enhanced Feedback in Diary Study Platform Virginia Tech Undergraduate Research in Computer Science (VTURCS) program CHI 2025 ACM Student Research Competition FIE 2025 Full Paper	Virginia Tech
2024.08-12	Barreiro, C., Chandran, J., Seifu, E., Chavan, P., Gaudian, W., Gresge, G., Rosselli, T., Hess, N., & Ryu, A., Technology on the Trail Virginia Tech Undergraduate Research in Computer Science (VTURCS) program National Science Foundation: NSF Project	Virginia Tech
2024.07-08	Barreiro, C., Chandran, J., Jordan, P., Seifu, E., Devgan, I., & Elkins, E., Technology on the Trail Virginia Tech Undergraduate Research in Computer Science (VTURCS) program National Science Foundation: NSF Project	Virginia Tech
2024.02-05	Horrall, J., Chavan, P., Owusu, Y., Jordan, P., Zhao, J., Gaudian, W., & Rana, A., Building Tools to Support Diary Studies Virginia Tech Undergraduate Research in Computer Science (VTURCS) program SIGCSE TS 2025 ACM Student Research Competition CAPWIC 2024 Poster VTURCS People's Choice 1st Winner	Virginia Tech
Profession	onal Development	
Conferen	ce Reviewer	
2026 2025 2024	SIGCSE TS 2026, CSCW 2026, IEEE EduCON 2026 SIGCSE TS 2025, CSCW 2025, GROUP 2025, EduCHI 2025, IEEE FIE 2025, IEEE EduCON 2025 SIGCSE TS 2024, IEEE FIE 2024	
SESSION C	HAIR	
2025	SIGCSE TS 2025, Assessment #2	
Nominatio	DN	
2025	Nomination for Year 2024 Outstanding Undergraduate Research Mentor, Office of Undergraduate Research	Virginia Tech
MEMBERSH	IIP	
2023	Virginia Tech Academy for Graduate Teaching Assistant Excellence - VT GrATE Member, Graduate School	Virginia Tech