

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

Virginia Tech, Gilbert Place 3201, Blacksburg, VA 24060

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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 n 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 progra of individuals across the state."	Blacksburg, VA 2021 - 2022 am delivered to teams
Virginia Tech Advisor: Dr. Scott McCrickard	Blacksburg, VA 2018 - 2020

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

# Professional Experiences

#### INDUSTRY EXPERIENCES

2020.06-	Software Davidoner Engineer, Full time   Dactora Microsoft 0265 Team   Scattle   United States
2021.06	<b>Software Developer Engineer</b> , Full-time   Pactera Microsoft O365 Team   Seattle   United 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	<b>Graduate Teaching Assistant</b> , CS1114 Introduction to Software Design (leading lab sessions)   Virginia Tech
2024.06-07	<b>Graduate Teaching Assistant</b> , CS3724 Introduction to Human-Computer Interaction   Virginia Tech
2024.01-05	Graduate Teaching Assistant, CS5714 Usability Engineering   Virginia Tech
2024.12-01	<b>Graduate Teaching Assistant</b> , CS3604 Professionalism in Computing   Virginia Tech
2023.01-05	<b>Graduate Teaching Assistant</b> , CS3724 Introduction to Human-Computer Interaction   Virginia Tech
2022.08-12	<b>Graduate Teaching Assistant</b> , CS5724 Models and Theories of Human-Computer Interaction   Virginia Tech
2022.06-07	<b>Graduate Teaching Assistant</b> , 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	<b>Graduate Teaching Assistant</b> , 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 2025] 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 2025] Wang, W.-L., Andrus, N., Hassan, T., Fan, J., Cao, Y., Asante, J., Saaty, M., Haqq, D., & McCrickard, D. S. (2025). Writing home from afar: Connecting distant families through sharing of outdoor experiences with digital diaries. In Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2025).
- [EduCHI 2025] 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).
- [FIE 2025] 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
- [FIE 2025] 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.
- [IASDR 2025] 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.
- [EduCHI 2024] 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).
- [FIE 2024] 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.
- [FIE 2024] 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.
- [HCII 2024] 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 2025] 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).
- [ICER 2025] 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).
- [CSCW 2025] Fan, J., Zhao, J., Oh, S., Bolmer, M., Lee, Y., Flammer, N., Chen, Y., & McCrickard, D. S. (2025). Structuring collaborative reflection: Integrating diary study and focus group discussion (Poster). In Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2025). ACM.
- [CHI 2025] 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).
- [CHI Play 2023] 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 2025] 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 2025] 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_		

#### **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, 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 SIGCSE TS 2025, CSCW 2025, GROUP 2025, EduCHI 2025, FIE 2025, IEEE EduCON 2025 SIGCSE TS 2024, FIE 2024					
Session Chair						
2025	SIGCSE TS 2025, Assessment #2					
Nomination						
2025	<b>Nomination for Year 2024 Outstanding Undergraduate Research Mentor</b> , Office of Undergraduate Research	Virginia Tech				
MEMBERSHIP						
2023	Virginia Tech Academy for Graduate Teaching Assistant Excellence - VT GrATE Member, Graduate School	Virginia Tech				