Assistant Professor • Computer Science

Department of Computer Science • Hamilton College
198 College Hill Road, Clinton, New York, 13323

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EDUCATION

UNIVERSITY OF FLORIDA, Gainesville FL	Aug. 2016-Aug. 2019
 Ph.D. in Human-Centered Computing Dissertation: E-Science Collaborations in the Life-Sciences: Challenges and Design Opportur Coordination Committee: Dr. Jaime Ruiz (advisor), Dr. Gregory Webster, Dr. Kristy Boyer, Dr. Christina E 	
COLORADO STATE UNIVERSITY, Fort Collins CO	Aug. 2013-Jul. 2016
 M.S. in Computer Science Emphasis: Human-Computer Interaction Thesis: Using Audio Cues to Support Motion Gesture Interaction on Mobile Devices Advisor: Jaime Ruiz 	
MONTANA STATE UNIVERSITY, Bozeman MT	Aug. 2008-May 201.
B.S. in Computer ScienceMinor: MathematicsInstitutional Honors	
KYOTO UNIVERSITY	May 2011-June 2011
Study Abroad	
GRANTS, AWARDS, AND FELLOWSHIPS	
ACM SIGCHI Development Fund	202.
The SIGCHI Development Fund (SDF) provides resources for the SIGCHI community to communication, innovation, and expansion of SIGCHI globally and locally. Award amount	•
NSF Computer and Information Science and Engineering Research Initiation Initia The NSF Directorate for Computer and Information Science and Engineering (CISE) see grants intended to support research independence among early-career academicians whe lack access to adequate organizational or other resources. Award amount: \$173,044	eks to award
Google Explore CS Research (exploreCSR)	202
Google's exploreCSR aids higher education efforts to support students from marginalized pursue graduate studies and research careers in computing. Award amount: \$18,000.	d groups to
Gartner Grad Scholarship	201
Gartner, Inc. supports students in the College of Engineering at the University of Floridal learning about information technology. Award amount: \$1,000.	a interested in
University of Florida Graduate School Fellowship Award The Graduate School Fellowship assists PhD programs to offer highly competitive resear assistantship stipends to their strongest PhD applicants	2016-201 arch/teaching
Colorado State University College of Natural Sciences Graduate Student Excellence	e in 201
Undergraduate Research Mentoring Award	
The Teaching and Mentoring Awards recognize faculty and graduate students that have excellence in the teaching and mentoring of students. Award amount: \$500.	set a standard of

Colorado State University Computer Science Graduate Fellowship *Provides support to graduate students enrolled in the department*

2014-2015

PUBLICATIONS

JOURNAL PAPERS (PEER REVIEWED)

- (J1) S. Morrison-Smith, C. Boucher, A. Sarcevic, N. Noyes, C. O'Brien, N. Cuadros, and J. Ruiz. 2022.
 Challenges in large-scale bioinformatics projects.
 Humanities and Social Sciences Communications 9, 125 (2022).
- (J2) S. Morrison-Smith, J. Ruiz. 2020.

 Challenges and Barriers in Virtual Teams: A Literature Review
 Springer Nature Applied Sciences (2020).
- (J3) **S. Morrison-Smith**, M. Hofmann, Y. Li, and J. Ruiz. 2016. *Using Audio Cues to Support Motion Gesture Interaction on Mobile Devices*.

 ACM Transactions on Applied Perception (TAP) 13.3 (2016): 16.
- (J4) **S. Morrison-Smith**, C. Marmon, S. Dighans, T. Daniels, C. Izurieta. 2012. *Technical Debt Reduction Using a Game Theoretic Competitive Source Control Approach* Council on Undergraduate Research (CUR), CUR Journal, (Winter 2012), Vol 33, No 2.
- (J5) J.M. Costantini, F. Beuneu, **S. Morrison-Smith**, R. Devanathan, and W. J. Weber. 2011. *Paramagnetic Defects in Electron-Irradiated Yttria—Stabilized Zirconia: Effect of Yttria Content* Journal of Applied Physics 110 (2011) 123506.

CONFERENCE PUBLICATIONS (PEER REVIEWED)

- (C1) X. Guo, Q. Li, S. Morrison-Smith, L. Anthony, A. Zare, Y. Song. 2024.
 Elucidating Challenges and User Needs Associated with Annotation Software for Plant Phenotyping.
 Proceedings of the 2024 International ACM Conference on Intelligent User Interfaces (IUI '24), ACM.
- (C2) A. Aloba, **S. Morrison-Smith**, A. Richlen, K. Suarez, Y.P. Chen, J. Ruiz, L. Anthony. 2023. *Multimodal User Authentication in Smart Environments: Survey of User Attitudes*. arXiv preprint arXiv:2305.03699.
- (C3) S. Morrison-Smith, L. Chilton, and J. Ruiz. 2021.
 AmbiTeam: Providing Team Awareness Through Ambient Displays.
 Proceedings of the 2021 International Conference on Graphics Interfaces (GI '21), ACM.
- (C4) S. Morrison-Smith, A. Aloba, H. Lu, B. Benda, S. Esmaeili, G. Flores, J. Smith, N. Soni, I. Wang, R. Joy, D. L. Woodard, J. Ruiz, and L. Anthony. 2020.
 MMGatorAuth: A Novel Multimodal Dataset for Authentication Interactions in Gesture and Voice.
 Proceedings of the 2020 International Conference on Multimodal Interaction (ICMI '20), ACM.
- (C5) N. Soni, S. Gleaves, H. Neff, S. Morrison-Smith, S. Esmaeili, I. Mayne, S. Bapat, C. Schuman, K. A. Stofer, and L. Anthony. 2020.
 Adults' and Children's Mental Models for Gestural Interactions with Interactive Spherical Displays.
 Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'2020), ACM.
- N. Soni, S. Gleaves, H. Neff, S. Morrison-Smith, S. Esmaeili, I. Mayne, S. Bapat, C. Schuman, K. A. Stofer, L. Anthony. 2019.
 Do User-Defined Gestures for Flatscreens Generalize to Interactive Spherical Displays for Adults and Children?
 Proceedings of the International Symposium on Pervasive Displays (PerDIS '19), ACM.

(C7) S. S. A. Shimon, C. Lutton, Z. Xu, S. Morrison-Smith, C. Boucher, and J. Ruiz. 2016. Exploring Non-touchscreen Gestures for Smartwatches. Proceedings of the 34th Annual ACM Conference on Human Factors in Computing Systems (CHI'16), ACM.

(C8) S. Morrison-Smith, C. Boucher, A. Bunt, and J. Ruiz. 2015.
Elucidating the Role and Use of Bioinformatics Software in Life Science Research.
Proceedings of the 2015 British HCI Conference (British HCI '15). ACM, 230–238.

(C9) S. S. A. Shimon, S. Morrison-Smith, N. John, G. Fahimi, and J. Ruiz. 2015. Exploring Back-of-The Device Gestures for Mobile Interaction
Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Service (MobileHCI '15). ACM, 227-232.

(C10) S. Morrison-Smith, C. Marmon, S. Dighans, T. Daniels, C. Izurieta. 2012. Technical Debt Reduction Using a Game Theoretic Competitive Source Control Approach ISCA 25th International Conference on Computer Applications in Industry and Engineering, (CAINE '12), New Orleans, LA, Nov. 14-16, 2012.

POSTERS AND EXTENDED ABSTRACTS (PEER REVIEWED)

(AB1) D. A. Sur, N. Cuadros, C. O'Brien, J. Chang, Y. Wu, M. Zee, J. Frazier, H. Patel, S. Morrison-Smith. 2023.

DriveGroups: Transparency and Access Control in Life Science Data Sharing
In submission: CHI '23 Extended Abstracts on Human Factors in Computing Systems, ACM (2023).

(AB2) A. Goldman, C. Espinosa, S. Patel, F. Cavuoti, J. Chen, A. Cheng, S. Meng, A. Patil, L. B. Chilton, S. Morrison-Smith. 2022.

QuAD: Deep-Learning Assisted Qualitative Data Analysis with Affinity Diagrams CHI '22 Extended Abstracts on Human Factors in Computing Systems, ACM (2022).

(AB3) S. Morrison-Smith, H. Yao, I. Wang, B. Lok, and J. Ruiz. 2018.
Staying Alive with Virtual Humans
CHI '18 Extended Abstracts on Human Factors in Computing Systems, ACM (2018).

(AB4) S. Morrison-Smith and J. Ruiz. 2014.

Using Audio Cues to Support Motion Gesture Interaction on Mobile Devices. CHI '14 Extended Abstracts on Human Factors in Computing Systems, ACM (2014).

(P1) S. Morrison-Smith. 2009.

Data Analysis of Hydration in Fuel Cell Membranes
Department of Energy Science and Engineering Research Challenge (SERCh) (2009).

REFEREED WORKSHOPS

(W1) S. Morrison-Smith, L. B. Chilton, J. Ruiz. 2020.

Facilitating Team Awareness through Ambient Displays
Proceedings of Microsoft's Symposium on the New Future in Work. (2020).

(W2) S. Morrison-Smith, C. Boucher, I. Wang, and J. Ruiz. 2016.

Opportunities for Supporting Large-Scale Collaborative Projects.

Proceedings of Computer-Supported Cooperative Work and Social Computing (CSCW '16): Workshop on Large-scale Collaborative Projects to Affect Societal Change.

ARTICLES

(AR1) S. Morrison-Smith, L. B. Chilton, J. Ruiz. 2020.

AmbiTeam: Enabling Awareness of Remote Team Activities Using Ambient Displays ACM XRDS Magazine. (2021).

TEACHING

HAMILTON COLLEGE, Clinton NY CPSCI 410 Senior Seminar on HCI for Social Good Instructor
CPCSI 101 Computer Science for All Instructor
CPCSI 220 Principles of Programming Languages Instructor
CPCSI 360 Developing Accessible User Interfaces Creator and Instructor
BARNARD COLLEGE, New York NY COMS BC 3162 Developing Accessible User Interfaces Creator and Instructor
COMS BC 3364 Introduction to Contextual Design for Technology Creator and Instructor
Pre-College Program: Accessibility in the World and on the Web Creator and Instructor
Pre-College Program: User Experience Design for Technology Creator and Instructor
UNIVERSITY OF FLORIDA, Gainesville FL COP 3502 Introduction to Programming 1 Instructor
COLORADO STATE UNIVERSITY, Fort Collins CO CS 464 Introduction to Human-Computer Interaction Teaching Assistant
MONTANA STATE UNIVERSITY, Bozeman MT M 105Q Contemporary Mathematics Educational Methods Teaching Fellowship
Tutoring Association for Women in Computing Tutor

SERVICE

RESEARCH PROGRAM & ORGANIZING COMMITTEES

Reviewer, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)

Assistant Chair , ACM SIGCHI Conference on Human Factors in Computing Systems Late Breaking Work (CHI)	2023
Reviewer, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2022
Senior Program Committee, ACM International Conference on Multimodal Interaction (ICMI)	2022
Reviewer, ACM Conference on Computer-Supported Cooperative Work (CSCW)	2021
Reviewer, ACM Conference on Mobile Human-Computer Interaction (MobileHCI)	2021
Reviewer, ACM Conference on Designing Interactive Systems (DIS)	2021
Assistant Chair , ACM SIGCHI Conference on Human Factors in Computing Systems Late Breaking Work (CHI)	2021
Reviewer, ACM Conference on Designing Interactive Systems (DIS)	2020
Reviewer, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)	2020
Reviewer, ACM Conference on Designing Interactive Systems (DIS)	2019
Reviewer, ACM International Conference on Intelligent User Interfaces (IUI)	2019
Reviewer, Graphics Interface (GI)	2014
DEPARTMENTAL & UNIVERSITY SERVICE	
HAMILTON Search Committee, Computer Science Department	2023-Present
SREB Recruiter, Hamilton College	2023-Present
Organizer, AccessHack	2023
BARNARD Department Representative, Barnard Summer Research Institute	2021-2022
Judge, Columbia DivHacks	2021-2022
Judge, Columbia Divitacks	2021
Coordinator Barnard Computer Science Summer Research	2020
Coordinator, Barnard Computer Science Summer Research Mentor, Design at Columbia	2020
Mentor, Design at Columbia	2020-2021
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series	2020-2021 2020-2021
Mentor, Design at Columbia	2020-2021
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series	2020-2021 2020-2021
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series Judge, Columbia Virtual Campus Design Challenge	2020-2021 2020-2021
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series Judge, Columbia Virtual Campus Design Challenge ORGANIZATIONS	2020-2021 2020-2021 2020
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series Judge, Columbia Virtual Campus Design Challenge ORGANIZATIONS Affiliate, Alliance for Identity-Inclusive Computing Education (AiiCE)	2020-2021 2020-2021 2020 2022-Present
Mentor, Design at Columbia Organizer, Barnard BEARS: Better, Enhance, and Advance Research Series Judge, Columbia Virtual Campus Design Challenge ORGANIZATIONS Affiliate, Alliance for Identity-Inclusive Computing Education (AiiCE) Member, American Association for the Advancement of Science	2020-2021 2020-2021 2020 2022-Present 2017-Present

Member, Association for Computing Machinery (ACM)	2014-Present
Secretary (2011-2013), Member (2009-2011), Association for Women in Computing (AWC) – Montana State University	2011-2013
OUTREACH	
Colorado State University's ACM-W K-12 Outreach Series	2014—2015
Colorado State University's Math, Science, & Technology Day	2013—2014
Montana State University's Engineer-a-thon	2012
INVITED TALKS AND WORKSHOPS	
Panel: Ada Lovelace Day Hamilton College Hamilton College Library	Clinton, NY October 2023
Workshop: Accessibility Columbia University DivHacks	New York, NY October 2021
Panel: Accessibility Columbia University DivHacks	New York, NY October 2021
Workshop: Fundamentals of Version Control using Git and GitHub Barnard College Vagelos Computational Science Center	New York, NY October 2021
Intro to Barnard CS and Hands-on Data Visualization Barnard College Science Pathways Scholars Program (SP ²)	New York, NY July 2021
Challenges and Barriers in Virtual Teams: A Literature Review AnnexBox	New York, NY July 2021
Career Paths in STEM Barnard College Summer Research Institute	New York, NY June 2021
"Why Are There So Many Students with Disabilities?": Looking at Disability from a DEI Lens Barnard College Center for Engaged Pedagogy	New York, NY March 2021
Introduction to Source Control Barnard College Barnard BEARS: Better, Enhance, and Advance Research Series	New York, NY March 2021
Finding Your Mentor Barnard College Barnard BEARS: Better, Enhance, and Advance Research Series	New York, NY January 2021
	New York, NY

User Interface/User Experience Columbia University DivHacks Hackathon	October 2020
Quick Guide to Accessible Design Columbia University Design at Columbia	New York, NY June 2020
Eliciting Gestures from Users Barnard College	New York, NY May 2019
Supporting Biological E-Science Through HCI Center for Minorities and People with Disabilities in IT	Houston, TX May 2019
Exploring Users' Work Practices, Needs, and Mental Models to Build the Next Generation of Interactive Technology Future Faculty Workshop University of Notre Dame	Notre Dame, IN April 2019
Mental Health & Graduate School University of Florida	Gainesville, FL February 2019
Calming CHI Anxiety: A Mindfulness Approach University of Florida	Gainesville, FL September 2018
A Picture is Worth a Thousand Words: Making Informative Figures for Research Papers University of Florida	Gainesville, FL October 2017
Improving At-Home CPR Training with Virtual Feedback University of Florida	Gainesville, FL July 2017
RSIs or: How I learned to Stop Worrying and Love the Foot Mouse University of Florida	Gainesville, FL July 2017