Amanpreet Kapoor

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EDUCATION

Ph.D. in Human Centered Computing, University of Florida, USA   Aug 17-May 22 (Expected)

M.S. in Computer Science, University of Florida, USA   May 16

B.Tech. in Computer Science, Jaypee University of Engineering & Technology, India   May 15

RESEARCH EXPERIENCE

Research Assistant, Engaging Learning Lab, University of Florida   Oct 15-May 16, Aug 17-Present

Research Interests: Computer Science Education, Learning Analytics and Human Computer Interaction

Advisor: Dr. Christina Gardner-McCune

Project and Role	Project Summary, Contributions, and Outcomes	Timeline
CS Professional Identity Development *[Lead]*	- *Summary:* Understand CS students' identity formation and reduce the gap between academia and industry - *Contributions:* Study Design; Data Collection - Interviews, Survey; Data Analysis using Qualitative Methods (Grounded Theory, Thematic Analysis, and Ethnography) and Quantitative Methods (Regression and Statistical Testing) - *Outcomes:* Grants- [G1]; Awards- [A6]; Travel Grants- [TG2] [TG4] [TG5] [TG6] [TG7] [TG10] [TG11]; Papers- [C1] [C2] [C4] [C5] [C6] [C7] [D1]; Posters- [P1] [P3] [P4];	Oct 15-May 16 Aug 17-Present
CSEd@Scale *[Lead]*	- *Summary:* Data analytics project aimed at analyzing the CS student's data in MOOCs and Learning Management Systems to better categorize learners and use predictive techniques to introduce adaptive interventions - *Contributions:* Study Design; Educational Data Mining using Pandas & Scikit-learn - *Outcome:* Poster- [Po1]	Oct 17-Present
Modeling Global Competencies in CS Education *[Member]*	- *Summary:* Formulating a framework for modeling competencies in the current and future disciplines that contribute towards computing education - *Contributions:* Theoretical Framework Derivation & Systematic Lit. Review - *Outcomes:* Papers- [C3] [SC1]	Apr 18-Nov 18
Programming in Block based Environments *[Member]*	- *Summary:* Understanding the Mental Models of First-Time Programmers when Learning to Program in Scratch - *Contributions:* Data Analysis- Validation, Descriptive Statistics; - *Outcome:* Poster- [P2]	Aug 17-Sep 18
Assessing Authority Bias in Virtual Humans using Eye tracking *[Member: Coursework]*	- *Summary:* Examining the effect of virtual human's appearance on user's trust through an in-between study comparing user's eye fixation data - *Contributions:* Study Design; Data Analysis - Inferential Statistics; - *Outcome:* Poster- [P3]	Jan 18-Jun 18
Empathy Development in Children using Virtual Environments *[Member]*	- *Summary:* Promoting Empathy Development in Children through storytelling in a Virtual Reality Game - *Contributions:* Data Collection (Systematic Observation & Interviewing Children)	Jan 18-Apr 18

TEACHING EXPERIENCE

Instructor - OnCampus, University of Florida, Gainesville, USA   Jan 20-Present

Course: Data Structures and Algorithms, COP 3530, Su 20
Tasks: Leading lectures and supervising a staff of three TAs in a class of 150 students

Course: Programming Fundamentals 1, COP 3502, Sp 20
Tasks: Leading lectures and supervising a staff of two peer mentors (TAs) in a class of 49 students
Evaluation: 4.7/5.0 (Response Rate, RR-77%)

Instructor - Online, University of Florida, Gainesville, USA   Aug 18-Dec 19

Course: Data Structures and Algorithm Online, COP 3530, Fa 18, Sp 19, Su 19, Fa 19
Tasks: Designing coursework, creating video lectures, and grading in a class of 21, 22, 23, 24 students
Evaluation: 4.9/5.0 (RR-55%), 4.6/5.0 (RR-95%), 5.0/5.0 (RR-48%), 4.7/5.0 (RR-67%)

Graduate Teaching Assistant, University of Florida, Gainesville, USA   Aug 17-Apr 19

Course: Data Structures and Algorithm, COP 3530, Sp 18, Su 18, Fa 18, Sp 19
Tasks: - Led discussion sessions consisting of 48, 74, 54, 33 students, grading, resolving problems, and
        teaching Java and C++
      - Designed more than 30 programming problems and led the initiative to move the entire
        coursework to a programming platform, Stepik
      - Managed and supervised a staff of 16 undergraduate teaching assistants in Spring 19

Course: Software Engineering, CEN 3031, Fa 17
Tasks: Led discussion sections teaching 48 students HTML, CSS, AngularJS, and GitHub; Graded and
        resolved problems.

Teaching Assistant, Jaypee University of Engineering & Technology, India   Jul 14-Dec 14

Course: Web Technology Lab, Fa 14
Tasks: Designed the course homework, projects and resolved the difficulties encountered in
        HTML, CSS and PHP for a course consisting of 60 students.

INDUSTRY EXPERIENCE

Solution Developer, Deloitte Consulting LLP, Orlando, Florida, USA   Sep 16-Aug 17

Worked as an L1 level business analyst for a Fortune 500 financial corporation client, dispositioning OFAC entries with a 99% Quality metric, resulting in being promoted to one of the two L2 analysts in a team of 40 L1 analysts and supervising an offshore team. Also, led training for new hires teaching HTML, CSS, and ASP.NET.

UI Software Engineering Intern, Siemens Healthineers, Issaquah, Washington, USA   May 16-Aug 16

Created and integrated a Style Library for Controls in XAML for the UI of an ultrasound machine, reducing existing XAML codebase and developed a reference Prototype application using WPF to aid developers in reusing the new styles.

Web Developer, Bridge Software Institute, University of Florida, Gainesville, USA   Dec 15-Aug 16

Designed and implemented the new research website for the institute with cross browser compatibility using HTML, CSS, JavaScript and PHP.

GRANTS

[G1]   ACM SIGCSE Special Award, CS Identity Development Interview Project ($3,078)   Jun 18
        Co-shared with my advisor: Dr. Christina Gardner-McCune

AWARDS & SCHOLARSHIPS

[A9]   Gartner Group Graduate Fellowship, CISE Department, UF, USA   Mar 20

[A8]   University of Florida International Center Certificate of Excellence, UF, USA   Nov 19

[A7]	CISE Department Nominee, Outstanding Graduate Teaching Assistant Award, UF, USA	Apr 19
[A6]	2nd place, ACM Student Research Competition [P4] at SIGCSE 2019, Minneapolis, USA	Mar 19
[A5]	Graduate Teaching Assistantship for Doctoral Program, University of Florida, USA	Aug 17
[A4]	Firm Impact Award for meeting firm goals & professionalism, Deloitte Consulting, USA	Jul 17
[A3]	Applause Award for best performance in a team of 40 analysts, Deloitte Consulting, USA	Apr 17
[A2]	Academic Achievement Award for Excellence in Academics, University of Florida, USA	Aug 15
[A1]	Vice Chancellor's Gold Medal for highest GPA in CS, Jaypee University (JUET), India	May 15

TRAVEL AWARDS

[TG11]	Graduate Student Council, University of Florida ($350) to attend ACE 2020	Feb 20
[TG10]	ACM ITiCSE Doctoral Consortium (£450) to attend ITiCSE 2019	Jul 19
[TG9]	ACM IMS ($950) to attend Interdisciplinary Summit on the Foundations of Data Science	Jun 19
[TG8]	Python Software Foundation ($535) to attend PyCon 2019	May 19
[TG7]	GREAT Foundation Travel Grant ($500) to attend SIGCSE 2019	Feb 19
[TG6]	Graduate Student Council, University of Florida ($350) to attend SIGCSE 2019	Feb 19
[TG5]	ACM Student Travel Grant ($500), to attend SIGCSE 2019	Feb 19
[TG4]	CISE Department Travel Scholarship, University of Florida ($500) to attend ITiCSE 2018	Jul 18
[TG3]	Python Software Foundation ($500) to attend PyCon 2018	May 18
[TG2]	Graduate Student Council, University of Florida ($350) to attend SIGCSE 2018	Feb 18
[TG1]	Python Software Foundation ($200) to attend PyCon 2016	May 16

REFEREED FULL CONFERENCE PAPERS

[C7]	ACM SIGCSE 20	Exploring the Participation of CS Undergraduate Students in Industry Internships **Kapoor, A.,** & Gardner-McCune, C. https://doi.org/10.1145/3328778.3366844 *Acceptance Rate:* 31%
[C6]	ACM ACE 20	Barriers to Securing Industry Internships in Computing **Kapoor, A.,** & Gardner-McCune, C. https://doi.org/10.1145/3373165.3373181 *Acceptance Rate:* 45%
[C5]	ACM ITiCSE 19	Understanding CS Undergraduate Students' Professional Identity through the lens of their Professional Development **Kapoor, A.,** & Gardner-McCune, C. https://doi.org/10.1145/3304221.3319764 *Acceptance Rate:* 27%
[C4]	ACM SIGCSE 19	Understanding CS Undergraduate Students' Professional Development through the Lens of Internship Experiences **Kapoor, A.,** & Gardner-McCune, C. https://doi.org/10.1145/3287324.3287408 *Acceptance Rate:* 32%
[C3]	ACM ITiCSE 18	Modelling Competencies for Computing Education beyond 2020: A Research Based Approach to Defining Competencies in the Computing Disciplines Frezza, S., Daniels, M., Pears, A., Cajander, Å., Kann, V., **Kapoor, A.,** McDermott, R., Peters, A.K., Sabin, M. & Wallace, C.

https://doi.org/10.1145/3293881.3295782

[C2]	ACM ITiCSE 18	Considerations for Switching: Exploring Factors behind CS Students' Desire to Leave a CS Major
		Kapoor, A., & Gardner-McCune, C.
		https://doi.org/10.1145/3197091.3197113 *Acceptance Rate:* 29%

[C1]	ACM SIGCSE 18	Understanding Professional Identities and Goals of Computer Science Undergraduate Students
		Kapoor, A., & Gardner-McCune, C.
		https://doi.org/10.1145/3159450.3159474 *Acceptance Rate:* 35%

DOCTORAL CONSORTIUM

[D1]	ACM ITiCSE 19	A Grounded Theory of Computing Professional Identity Formation
		Kapoor, A.
		https://doi.org/10.1145/3304221.3325598 *Acceptance Rate:* 53%

REFEREED SHORT CONFERENCE PAPERS

[SC1]	ACM ITiCSE 18	Modeling Global Competencies for Computing Education
		Frezza, S., Pears, A., Daniels, M., Kann, V., **Kapoor, A.,** McDermott, R., Peters, A.K., Wallace, C., Sabin, M. and Cajander, Å.
		https://doi.org/10.1145/3197091.3205844

REFEREED POSTERS

| [P5] | UXPA 19 | Understanding Aspiring UX Professionals' Professional Development. |
| | | **Kapoor, A.,** & Gardner-McCune, C. *Acceptance Rate:* 38% |

[P4]	ACM SIGCSE 19	Deconstructing Successful and Unsuccessful Computer Science Undergraduate Interns
		Kapoor, A.
		https://doi.org/10.1145/3287324.3293711 *Acceptance Rate:* 54%

[P3]	ACM IVA 18	Assessing the Impact of Virtual Human's Appearance on Users' Trust Levels.
		Zalake, M., Woodward, J., **Kapoor, A.** and Lok, B.
		https://doi.org/10.1145/3267851.3267863

[P2]	IEEE VL/HCC 18	Usability Challenges that Novice Programmers Experience when Using Scratch for the First Time.
		Jimenez, Y., **Kapoor, A.,** & Gardner-McCune, C.
		https://doi.org/10.1109/VLHCC.2018.8506560

[P1]	ACM SIGCSE 18	Understanding How Computer Science Undergraduate Students are Developing their Professional Identities
		Kapoor, A., & Gardner-McCune, C.
		https://doi.org/10.1145/3159450.3162322 *Acceptance Rate:* 56%

UNREFEREED POSTERS

| [Po1] | CMU LearnLab Summer School 18 | Categorizing and Predicting Learners in an Introductory Programming Course offered through Open-Learning Initiative. |
| | | **Kapoor, A** & Gupta, S. |

PAPER PRESENTATIONS

SIGCSE 20	Exploring the Participation of CS Undergraduate Students in Industry Internships [Video Presentation]	Mar 20
ACE 20	Barriers to Securing Industry Internships in Computing	Feb 20
ITiCSE 19	Understanding CS Undergraduate Students' Professional Identity through the lens of their Professional Development	Jul 19
SIGCSE 19	Understanding CS Undergraduate Students' Professional Development through the Lens of Internship Experiences	Mar 19
ITiCSE 18	Considerations for Switching: Exploring Factors behind CS Students' Desire to Leave a CS Major	Jul 18
SIGCSE 18	Understanding Professional Identities and Goals of Computer Science Undergraduate Students	Feb 18

POSTER PRESENTATIONS

ITiCSE 19	A Grounded Theory of Computing Professional Identity Formation	Jul 19
UXPA 19	Understanding Aspiring UX Professionals' Professional Development	Jun 19
SIGCSE 19	Deconstructing Successful & Unsuccessful Computer Science Undergraduate Interns	Feb 19
CMU LearnLab Summer School 18	Categorizing and Predicting Learners in an Introductory Programming Course offered through Open-Learning Initiative	Aug 18
13th Annual Conference of Social Sciences, UF	Understanding How Computer Science Undergraduate Students are Developing their Professional Identities	Apr 18
Graduate Student Research Day, UF	Understanding How Computer Science Undergraduate Students are Developing their Professional Identities	Apr 18
SIGCSE 18	Understanding How Computer Science Undergraduate Students are Developing their Professional Identities	Feb 18

OTHER PRESENTATIONS/TALKS

The UF Faculty and Staff Symposium, Career Connections Center, UF	Lessons from Students Experiences Outside of the Classroom Christina Gardner-McCune and Amanpreet Kapoor	Mar 20
Emerging Leaders in Science Policy & Advocacy Memo 19	Establishing a K-12 AI Teacher Training Program in Florida via Public-Private Partnerships Paul Rader, Angela Walther and Amanpreet Kapoor	Apr 19
Future of Florida Summit, Bob Graham Center for Public Service, UF	Bus to Success: Using Spatial Econometrics to Reduce Poverty in Gainesville, Florida	Feb 19

PROFESSIONAL SERVICE

Reviewer, ACM SIGCSE 20: *Posters*	Oct 19
Reviewer, ACM ITiCSE 19: *Posters*	Mar 19
Reviewer, Graduate Student Council, University of Florida: *Travel Grants*	Nov 17, Mar and Nov 18, Nov 19
Reviewer, UXPA (User Experience Professionals Association) Conference	Nov 18
Reviewer, ACM SIGCSE 19: *Research Papers, Nifty Assignments, and Panels*	Aug 18

LEADERSHIP AND COMMUNITY EXPERIENCE

Session Chair, Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT 2020) Conference — Mar 20

Member and Co-Lead, Software & GUI Team, Gatorloop, University of Florida — Jul 19-Nov 19

Co-Treasurer, Florida Society of Social Sciences, University of Florida — May 18-Apr 19
- co-raised more than $11,000 from eight campus partners for a statewide student-run conference, the 14th Annual Conference of the Social Sciences
- managed the budget, financial records, and logistics for the annual conference

Committee Chair, HCC Department Monthly Meetings, University of Florida — Aug 17-Nov 18
- organized monthly meetings, inviting and facilitating speakers

Session Runner (Volunteer), PyCon 2018, Cleveland — May 18

Evaluation Chair, Florida Society of Social Sciences, University of Florida — Aug 17-Apr 18

Volunteer, SIGCSE 2018, Baltimore, Maryland — Feb 18

Curriculum Board Advisor for UF TYPE Initiative (Teaching Youth Programming Essentials) — Aug 17-Dec 17
- designed programming curriculum for local middle school and high school students

Employer Relations Ambassador, Career Resource Center, University of Florida — Aug 15-May 16

Lead Creative, Google Student Community, JUET, India, organizing events for Google, India. — Jul 13-Jun 14

MENTORING

Caroline Hobson, University of Florida	Undergraduate Research	Jan 20 - Present
David Fussell, University of Florida	Undergraduate Research	Nov 18 - Oct 19
Beatrice Villanueva, University of Florida	Undergraduate Research	Aug 19 - Dec 19

WORKSHOPS/WORKING GROUPS

Co-led the *Introduction to GUI Workshop,* Gatorloop, University of Florida — Sep 19

Led the *Resume and CV workshop*, Intelligent Multimodal Human-Computer Interaction for Undergraduates Program, University of Florida — Jul 19

Selected for SIGCSE '19 workshop, *Integrating accessibility into Computer Science* — Feb 19

Selected for Working Group, Future of Florida Summit '19: The Bob Graham Center for Public Service, University of Florida — Feb 19

Selected for Working Group, *Modeling Global Competencies for Computing Education,* ITiCSE '18   Jun 18

PANELS

Invited Panelist, "Perspectives on Grad School: A Panel Discussion", Career Connection Center, University of Florida   Oct 19

Invited Panelist, "Student Leadership Panel", Career Success Institute (CSI), University of Florida   Oct 19

Panelist, "Internships in Human Centered Computing", Human Centered Computing Group, University of Florida   Apr 19

Moderator, "When I was a Grad Student...", Human Centered Computing Group, University of Florida   Nov 18

Invited Panelist, "Student Experiences in Graduate School", Engg. Graduate Student Council, University of Florida   Aug 18

GUEST LECTURES

Introduction to Standard Template Library and Constructs in C++, Data Structures and Algorithms   Jun 18