ACKNOWLEDGEMENTS

With enormous pleasure, I want to express my sincere and deepest gratitude to my great advisor, Prof. Kevin Crowston, for his immense support, patience, and excellent guidance through my Ph.D. His excellent research and intelligent advising skills helped me complete every step successfully in this challenging journey where I grew a lot as a researcher. His work ethic, discipline and effective teaching methods led me to become an independent researcher and will be an example to follow when I start to educate my students. I simply cannot thank him enough for his endless support, kindness, guidance, and encouragement. Prof. Crowston is the best advisor and the nicest person in the world. Thank you so much, Prof. Crowston!

I am also grateful to Prof. Carsten Østerlund because of his support during my master's and his introduction me to Prof. Crowston. I would like to thank Prof. Caroline Haythornthwaite and Prof. Jason Dedrick for their support during my master's and for Ph.D. application process. I am also deeply thankful to Dr. Lu Xiao for her guidance, support and kindness. I'm very thankful to my dissertation committee members Prof. Bei Yu, Dr. Daniel Acuna, Dr. Josh Introne and Dr. Keren Henderson. They have provided crucial feedback to enhance my dissertation. I also thank Prof. Steve Sawyer and Prof. Bei Yu who supported me through their wisdom and kindness as the doctoral directors. I want to thank other faculty members I had the chance to work with or to have conversations about my teaching and research during my Ph.D. journey: Prof. Jenny Stromer-Galley, Prof. Bruce Kingma, Dr. Nancy McCracken, Dr. Jasmina Tacheva, Dr. Jeff Saltz, Prof. Jeff Stanton, Dr. Jeff Hemsley, Dr. Ingrid Erickson, Dr. Bryan Seeman and Prof. Ping Zhang.

I thank all the other faculty members and staff at the iSchool for their insightful conversations and support. I also thank to Women in Science and Engineering and graduate school programs to support us through beneficial events. Furthermore, I have met wonderful

friends at the iSchool who are like sisters and brothers whom I'm thankful: Daniela Fernández Espinosa, Shivali Naik, Sucheta Lahiri, Subhasree Sengupta, Qingyu Liang, Han Zhuang, Lizhen Liang, Amira Rezgui, Mabi Harandi, Isabel Munoz, Jieun Yeon, Christy Joseph Khoury, Pyeonghwa Kim, Charis **Asante-Agyei,** Qunfang Wu, Yisi Sang, Leah Therese Dudak, Sarah Bratt, Sarah Bolden, Jennifer Sonne, Corey Jackson, Alexander Smith, Jean Philippe Rancy, Nata Barbosa, and Yaxing Yao.

Last but not least, I had the privilege to attend WAIM conference and to discuss the proposal of this dissertation in the summer 2022. I sincerely appreciate Prof. Youngjin Yoo, Dr. Peter Denno and Dr. Nicholas Diakopoulos for their valuable comments. Also, two master's students, Archana Deshpande and Kanishk Gupta, helped me for labelling and classifying the categories for validating the results of this dissertation. I am so thankful for their contributions.

I am also fortunate to have many incredible Turkish friends and I express my gratitude to all of them. I also thank my Turkish professors in my former school, Hacettepe University. They encouraged me to follow my dream and pursue my Ph.D. degree. I also express my sincere and deep gratitude to Turkish Ministry of Education. Thanks to their support, I had the opportunity to come to the USA and became the researcher and person that I am today.

Lastly, I am deeply thankful to the people who are the most valuable in my life: my mother, father, and brother, Hatice Ocal, Ismail Ocal and Hayri Ocal for their endless lifelong love, support, and caring, to whom I dedicate this dissertation.

Son olarak, hayatımdaki en değerli kişilere, anneme, babama ve abime: Hatice Öcal, İsmail Öcal ve Hayri Öcal, ömür boyu süren sonsuz sevgileri ve destekleri için derinden teşekkür ediyorum. Bu tezi onlara ithaf ediyorum.