

ANNE SPENCER ROSS

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I am a PhD student in the Paul G. Allen School of Computer Science & Engineering at the University of Washington. My broad interest is in Human-Computer Interaction. I am passionate about enabling diverse groups of people to access, interact with, and communicate information through technology. I am currently working with James Fogarty and Jacob O. Wobbrock on making Android applications more accessible to people with disabilities.

EDUCATION

University of Washington, Seattle, WA Ph.D. Student, Computer Science & Engineering , GPA: 3.92 Focused in Human-Computer Interaction and Accessibility	2015 - present
Colorado State University, Fort Collins, CO B.S. in Computer Science , Magna Cum Laude with Honors, GPA: 3.99 Thesis: <i>Examination of the Dedicated Research Assistant (DESA) System Usability and Effectiveness</i>	2012-2014
University of California Santa Cruz, Santa Cruz, CA Major: Film Production , Minor: Statistics, GPA: 3.95	2010-2012

AWARDS AND SERVICE

Best Paper Honorable Mention, <i>ASSETS 2017</i>	2017
Graduate Research Fellowship, <i>National Science Foundation</i>	2017
2 nd Place, ACM Graduate Research Competition, <i>Grace Hopper Celebration of Women in Computing</i>	2016
Honorable Mention, Graduate Research Fellowship, <i>National Science Foundation</i>	2016
Wilma Bradley Endowed Fellowship in Computer Science & Engineering, <i>Univ. of Washington</i>	2015 - 2016
Natural Sciences Undergraduate Fellowship, <i>Colorado State Univ.</i>	2014
Frances Allen Scholarship in Computer Science, awarded 2 years, <i>Colorado State Univ.</i>	2013 - 2014
Dean's Honors: Fall, Spring, <i>Colorado State Univ.</i>	2012-2013
Ram Transfer Scholarship for Academic Achievement, awarded 2 years, <i>Colorado State Univ.</i>	2012-2014
Dean's Honors: Fall, Winter, and Spring, <i>Univ. of California Santa Cruz</i>	2010 - 2012

SELECT PUBLICATIONS

<i>Examining Image-Based Button Labeling for Accessibility in Android Apps through Large-Scale Analysis</i> <u>Anne Spencer Ross</u> , Xiaoyi Zhang, Jacob O. Wobbrock, James Fogarty TO APPEAR AT ASSETS 2018	2018
<i>Values, Identity, and Social Translucence: Neurodiverse Student Teams in Higher Education</i> Annuska Zolyomi, <u>Anne Spencer Ross</u> , Arpita Bhattacharya, Lauren Milne, Sean Munson CHI 2018	2018
<i>Creative Writing with a Machine in the Loop: Case Studies on Slogans and Stories</i> Elizabeth Clark, <u>Anne Spencer Ross</u> , Chenhao Tan, Yangfeng Ji, Noah Smith IUI 2018	2018
<i>Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment</i> <u>Anne Spencer Ross</u> , Xiaoyi Zhang, James Fogarty, Jacob O. Wobbrock ASSETS 2017, BEST PAPER HONORABLE MENTION	2017
<i>Interaction Proxies for Runtime Repair and Enhancement of Mobile Application Accessibility</i> Xiaoyi Zhang, <u>Anne Spencer Ross</u> , Anat Caspi, James Fogarty, Jacob O. Wobbrock CHI 2017	2017

PROFESSIONAL EXPERIENCE

University of Washington Research Assistant DUB GROUP Advisors: James Fogarty, Jacob O. Wobbrock Explore ways to conceptualize, assess, and repair smartphone accessibility for people with disabilities	2015 – present
Mentor: Sean Munson	2016 – present

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Explore how technology can support higher education students with Autism in teamwork settings

ARK LAB

Mentor: Noah Smith

2017

Explore how working with a machine in the loop on creative writing may help creativity

Colorado State University, HCI and AI Labs

Undergraduate Research Assistant

2013 – 2014

Advisors: Jamie Ruiz, Adele Howe

Designed and implemented a personalized web search assistant and conducted usability studies

Explored using a mobile phone accelerometer and gyroscope to identify individuals and their activities

Naval Postgraduate School

Naval Research Enterprise Internship Program Intern

Summer 2013

Investigated using Naive Bayes classifiers to classify characteristics of Twitter users based on tweets

University of Maryland, Baltimore County

Research Intern at REU Site: Interdisciplinary Program in High Performance Computing

Summer 2012

Developed visualizations for and determined appropriate statistical analysis of water quality data

University of Colorado Denver

Summer Education and Training Intern

Summer 2011

Produced instructional films on research methods being used in a psychiatric lab

TEACHING EXPERIENCE

University of Washington, Seattle, WA

Teaching Assistant – “Advanced Topics in HCI” (CSE 510)

Spring 2017

Professor: James Fogarty. Aided in project feedback and assignment design.

PROFESSIONAL AND PERSONAL MENTORING

Women in Science and Engineering Bridge REU Mentor

Summer 2017

Worked with two students on a summer research project, resulting in a poster and oral presentation

Annie Hanson (incoming 1st year)

Maryam Bahadori-Nejad (incoming 1st year)

Individual Students Mentored

Summer 2017

Ishaan Chainani (summer high school research intern)

Undergraduate Mentor

2017 – *present*

Through the ACM-W, I mentor two women undergraduate computer science students; I answer questions about school and technology careers

New Graduate Student Mentor

2016

Mentored four incoming PhD graduate students during their first year

Smartphone Tutor

2016 – *present*

Assist an individual with low-vision with learning to use a smartphone

Computer Tutor

2012 – 2014

Assisted an individual learn basic computer skills

SERVICE

CHI Student Volunteer

2017

Computer Science & Engineering HCI Student Skill Share Coordinator

2017

CHI Student Volunteer

2016

Computer Science & Engineering New Graduate Students Orientation Coordinator

2016

Computer Science & Engineering New Graduate Students Mentoring Coordinator

2016

SELECT INVITED PRESENTATIONS

Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment

2017

Anne Spencer Ross

COMPUTER SCIENCE & ENGINEERING RESEARCH DAY, UNIV. OF WASHINGTON

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Supporting Equity in Smartphone Accessibility with Third-Party Repair Tools 2016
Anne Spencer Ross
SCHOLAR'S STUDIO, UNIV. OF WASHINGTON

ADDITIONAL PUBLICATIONS

Value Sensitive Design for Neurodiverse Teams in Higher Education 2017
Annuska Zolyomi, [Anne Spencer Ross](#), Arpita Bhattacharya, Lauren Milne, Sean Munson
ASSETS 2017

MEGARes: an Antimicrobial Resistance Database for High Throughput Sequencing 2016
Steven M. Lakin, Chris Dean, Noelle R. Noyes, Adam Dettenwanger, [Anne Spencer Ross](#), Enrique Doster
Pablo Rovira, Zaid Abdo, Kenneth L. Jones, Jaime Ruiz, Keith E. Belk, Paul S. Morley, Christina Boucher
NUCLEIC ACIDS RESEARCH, VOL. 45, ISSUE D1, 4 JANUARY 2017, PP. D574–D580

Tweet!—and I Can Tell How Many Followers You Have 2014
Christine Klotz, [Annie Ross](#), Elizabeth Clark, Craig Martell
RECENT ADVANCES IN INFORMATION AND COMMUNICATION TECHNOLOGY, VOL. 265, PP. 245-253

P50 Sensory Gating in Infants 2013
[Anne Spencer Ross](#), Sharon Kay Hunter, Mark A Groth, Randal Glenn Ross
JOURNAL OF VISUALIZED EXPERIMENTS, 50065

Assessment of Statistical Methods for Water Quality Monitoring in Maryland's Tidal Waterways 2013
Rosemary K. Le, Christopher V. Rackauckas, [Anne S. Ross](#), Nehemias Ulloa
SIAM UNDERGRADUATE RESEARCH ONLINE, VOL. 6

ADDITIONAL POSTERS AND PRESENTATIONS

Supporting Equity in Smartphone Accessibility with Third-Party Repair Tools 2016
Anne Spencer Ross
ACM STUDENT RESEARCH COMPETITION, GRACE HOPPER CELEBRATION, AWARDED 2ND PLACE, [POSTER, PRESENTATION]

Using Bayesian Statistics on Twitter Feeds to Classify Twitter Users 2014
[Anne Ross](#), Elizabeth Clark, Christina Klotz, Craig Martell
CELEBRATE UNDERGRADUATE RESEARCH AND CREATIVITY SHOWCASE, COLORADO STATE UNIV. [POSTER]

Using Bayesian Statistics on Twitter Feeds to Classify Twitter User 2014
[Anne Ross](#), Elizabeth Clark, Christina Klotz, Craig Martell
AMERICAN MATHEMATICAL ASSOCIATION'S SECTIONAL MEETING, [PRESENTATION]

Water Quality Monitoring in the Chesapeake Bay 2013
[Anne S. Ross](#), Rosemary K. Le, Christopher V. Rackauckas, Nehemias Ulloa, Sai Popuri,
Nagaraj Neerchal, Brian Smith
CELEBRATE UNDERGRADUATE RESEARCH AND CREATIVITY SHOWCASE, COLORADO STATE UNIV. [POSTER]

A Powerful New Tool for Visualizing Water and Habitat Quality Data 2012
Brian Smith, Rosemary K. Le, Christopher V. Rackauckas, [Anne S. Ross](#), Nehemias Ulloa,
Sai Popuri, Nagaraj Neerchal
MARYLAND WATER MONITORING COUNCIL'S ANNUAL CONFERENCE [POSTER]

Visualization and Analysis Tool for Water Quality Monitoring in the Chesapeake Bay 2012
[Anne S. Ross](#), Rosemary K. Le, Christopher V. Rackauckas, Nehemias Ulloa, Sai Popuri,
Nagaraj Neerchal, Brian Smith
ROCKY MOUNTAIN CELEBRATION OF WOMEN IN COMPUTING [POSTER]

A Powerful New Tool for Visualizing Water and Habitat Quality Data 2012
Brian Smith, Rosemary K. Le, Christopher V. Rackauckas, [Anne S. Ross](#), Nehemias Ulloa,
Sai Popuri, Nagaraj Neerchal
ATLANTIC ESTUARINE RESEARCH SOCIETY FALL MEETING [POSTER]

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- Water Quality Monitoring of Maryland's Tidal Waterways* 2012
Anne S. Ross, Rosemary K. Le, Christopher V. Rackauckas, Nehemias Ulloa, Sai Popuri,
Nagaraj Neerchal, Brian Smith
SUMMER UNDERGRADUATE RESEARCH FEST [POSTER]
- Using Video to Teach Research Methods* 2011
Anne Spencer Ross, Mark A Groth, Sharon Kay Hunter, Ali Newton, Kim Muhlhauser,
Elizabeth Calvin, Randal Glenn Ross
CONTE CENTER SUMMER RETREAT, AWARDED TOP POSTER [POSTER]
- Chimeric Animal Stroop Task for Young Children* 2011
Anne Spencer Ross, Mark A Groth, Sharon Kay Hunter, Kim Muhlhauser, Elizabeth Calvin, Randal Glenn Ross
DEVELOPMENTAL PSYCHIATRY RESEARCH LAB'S WEBSITE, UNIV. OF COLORADO DENVER [INSTRUCTIONAL VIDEO]