

WISC

WOMEN IN SECURITY AND CRYPTOGRAPHY WORKSHOP

presented by **CASA**

SEPT 21 DAY 1

WELCOME PhD students & Postdocs

ONLY SPEAK ONCE! need protocols where parties

BYZANTINE AGREEMENT PROTOCOL committee can be changed in each step

computation with subset is difficult

TAL RABIN "you need friends in the research community" "put yourself out there!"

ELETTE BOYLE "Don't be put off! Stick to your research and see that it makes a DIFFERENCE"

SECURE COMPUTATION IS POSSIBLE

PSEUDORANDOM CORRELATIONS

each party knows who they are connected with

"should not know more than that"

Lightning Talks

- Aakanksha Saha "PhD & Malware"
- Aikata
- Astrid Ottenhues "The design of a common lightweight crypto processor for post quantum schemes"
- Deepti Gupta "IoT - a future smart connected healthcare"
- Josiane Kovam "Detection of bypass frauds in cellular network datasets"
- Sahitya Yarragolla "Memristive devices for hardware security primitives"
- Katharina Bodugoust "Feminist Reading Circle for Computer Scientists"
- Tatjana Wingarz "data protection in machine learning"
- Yiqing Hua "Privacy-Preserving Image Moderation through Similarity-Based Bucketization"

USABILITY

PROMOTE CAREERS

EMBEDDED SECURITY

SECURE SYSTEMS

FEMALE EMPOWERMENT

RUHR UNIVERSITY BOCAUM

Future Cryptography

ewerART 2021

ARTIFICIAL Intelligence

learns from us

"AI itself is not biased"

"AI mirrors society"

ADRIENNE PORTER FELT "A CAREER is not a SINGLE CHOICE!"

Kenza Abbou "We can do it!"

MICHELLE MAZUREK "let's make security development easy for people"

Fiona "Most developers understand the need for security but struggled with how to implement it correctly"

Advice

TAKE YOUR EVENT GOALS

THINK ABOUT: What you VALUE? What you DON'T VALUE?

friendship, socialize, support, learning, inspiration, motivation

DEVELOPERS VULNERABILITY CLASSES

- NO IMPLEMENTATION
- MISSUNDERSTANDING
- MISTAKES

COMMUNITY "find a niche" and give it your signature!

DOCUMENTATION "we need to replace"

FEEDBACK "MATTER A LOT"

CARE ABOUT THE QUALITY OF THE WORK YOU ARE DOING

INTERESTING WOMEN

life isn't one BIG CHOICE

START OF DAY 2

START OF DAY 3

POWER

can influence PEOPLE

"TECHNOLOGY should not have more POWER than people"

CARMELA TRONCOSO "I enjoy the TALKS about FEMINISM!"

Protecting society from the DARK SIDE of technology

PRIVACY-UTILITY PAYOFF

RAW DATASET → ANONYMISATION MECHANISM → SANITISED SYNTHETIC DATASET → ANALYST

PLEASE empirically evaluate the PRIVACY PROPERTIES OF YOUR SYSTEM!

ETHICS: We need global rules! ethics are different depending on the country!

you need a happy medium to deliver the message!

COMMUNICATE IN A SIMPLE LANGUAGE

KNOW YOUR AUDIENCE

READ · DISCUSS · INTROSPECT

Do many internships, if you can! Take networking opportunities!

Have a plan for each day! "TIME!"

ORGANIZE & DEFEND YOUR COMMUNICATE

DISCUSS 'WOMENS ISSUES' as directly as you can in research with men/others and especially with other women!

SEPT 23 DAY 3

VIRTUAL PUB QUIZ!

TOM & DARREN