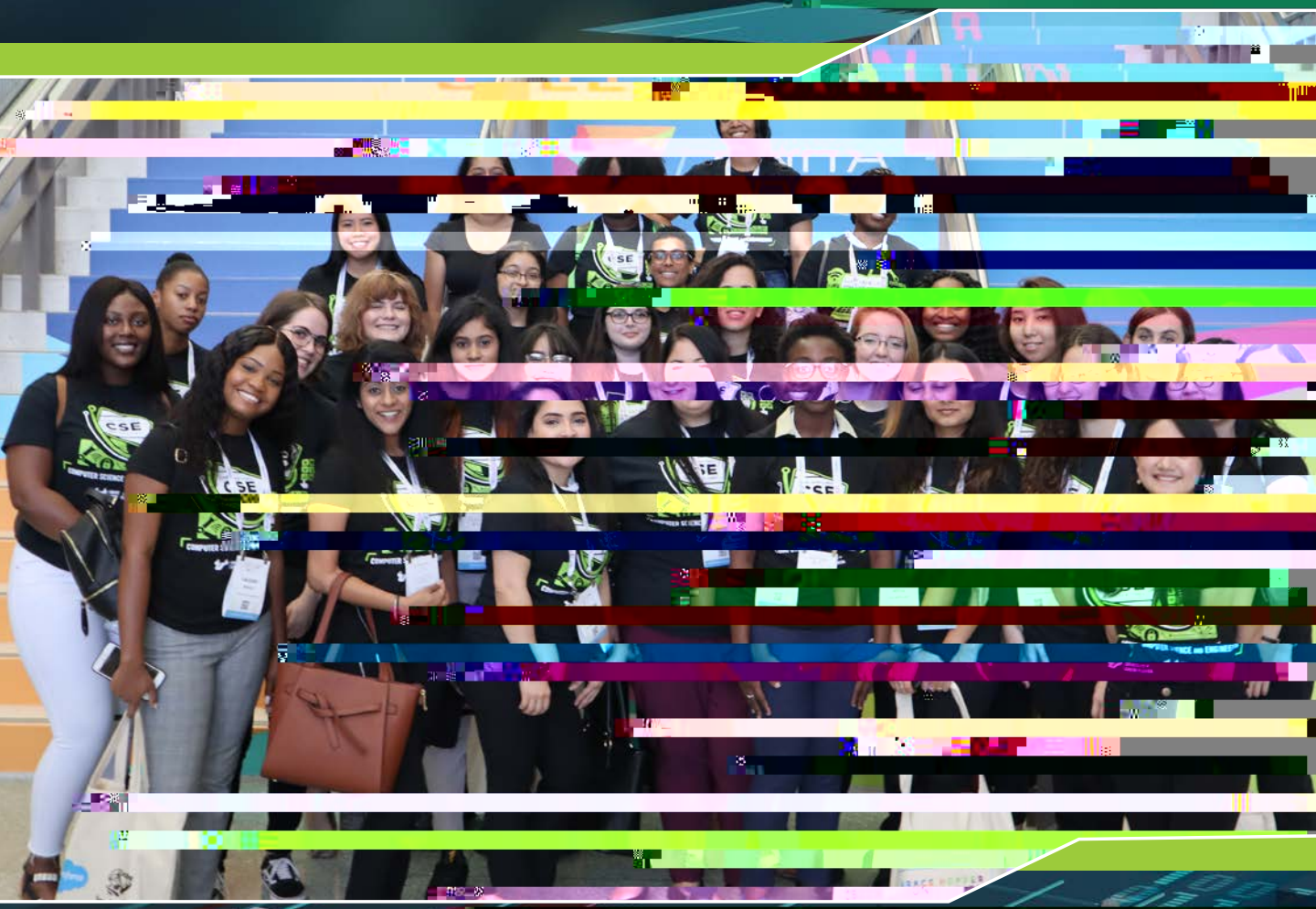
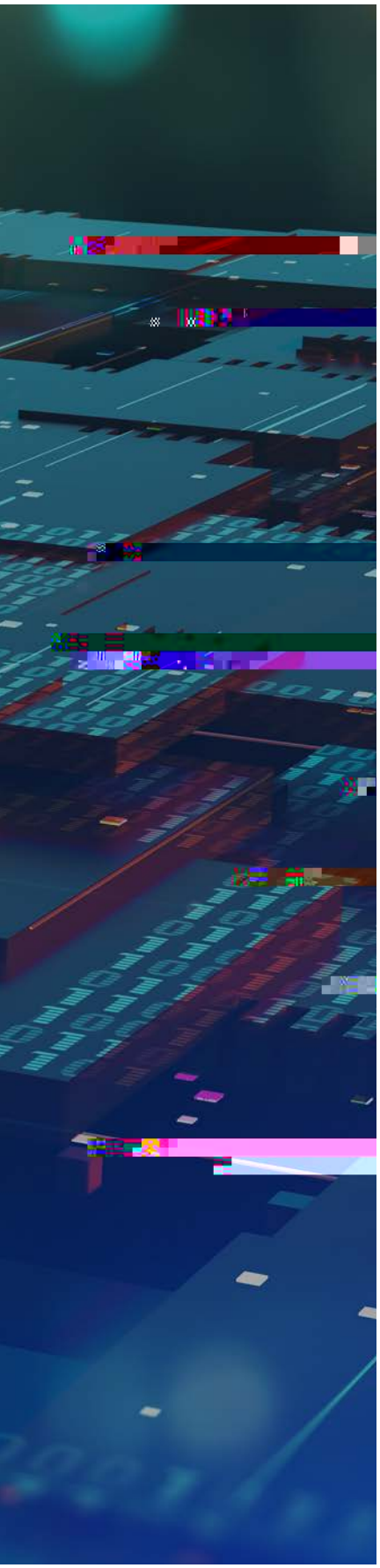
UNIVERSITY of SOUTH FLORIDA



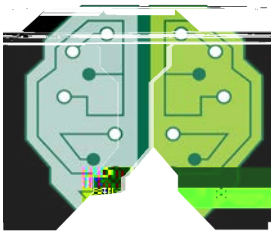
ANNUAL REPORT 2021-2022

COMPUTER SCIENCE AND ENGINEERING

COLLEGE OF ENGINEERING



A.I. and Cognitive Computing

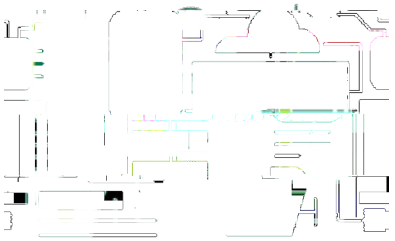


Computer Vision and Pattern Recognition, Artificial Intelligence and Machine Learning, Robotics, Brain-Computer Interfaces, Computational Neuroscience, Affective Computing

Cybersecurity

Cryptography, Trustworthy Computing, Network Security, Smart Bio-Devices, Hardware Security, Biometrics

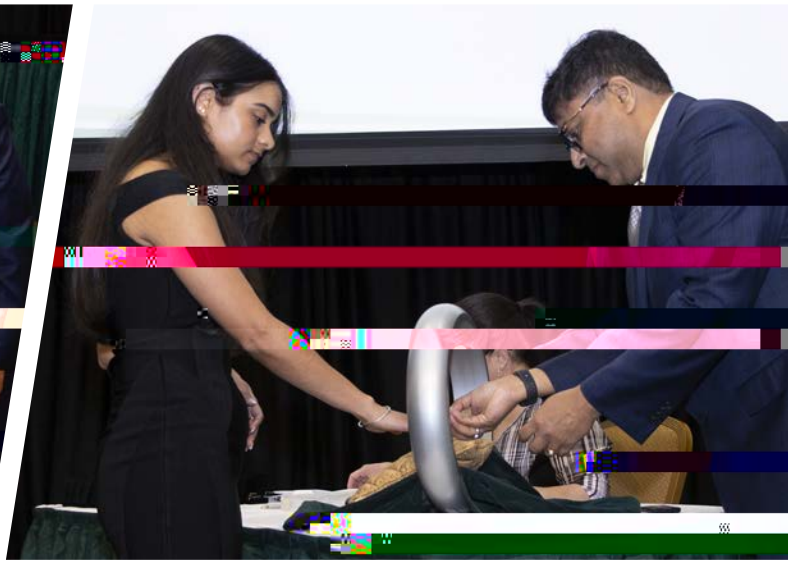
Efficient Computing Platforms



Computer Architecture, VLSI, Ubiquitous Sensing Networks, Distributed Computing, Parallel Processing, Biomedical Devices, and Human-Centered Computing

Big-Data Algorithms

Biomedical Imaging, Machine Learning, Databases, Visualization, Social Networks



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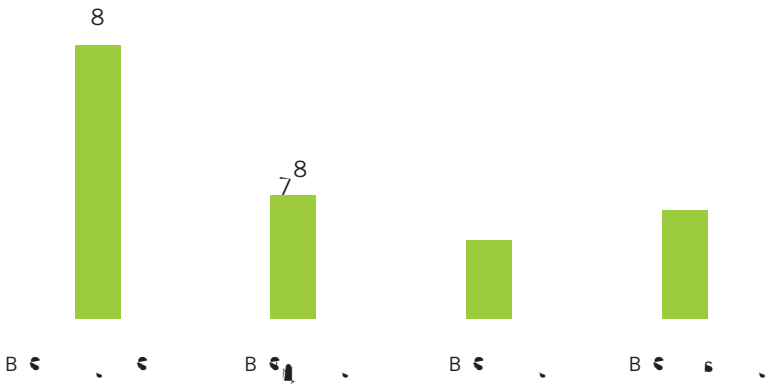
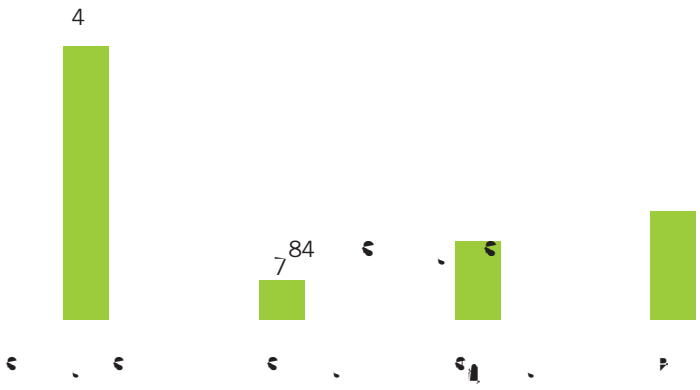
UNDERGRADUATE DEGREES
AY 2021-22



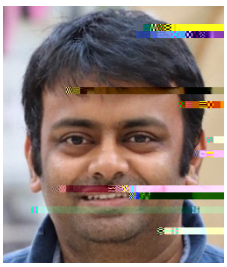


GRADUATE DEGREES
AY 2021-22

FACULTY AWARDS & HONORS

CUTTING-EDGE INNOVATIONS TO FIGHT DISEASE, ENHANCE LEARNING WIN USF'S 2021 EXCELLENCE IN INNOVATION AWARDS

February 1, 2021



Learn More: https://bit.ly/3by9KjR

SUDEEP SARKAR NAMED DISTINGUISHED UNIVERSITY PROFESSOR

April 8, 2021

Learn More: https://bit.ly/3zTZ9Jt

COLLABORATIVE PAPER EARNS 2020 IET BIOMETRICS PREMIUM AWARD

March 24, 2021

Learn More: https://bit.ly/3zvhaMU

SUDEEP SARKAR ELECTED TO ACADEMY OF SCIENCE, ENGINEERING AND MEDICINE OF FLORIDA

April 8, 2021

ASSISTANT PROFESSOR LICATO WINS BEST PAPER AWARD AT 1ST INTERNATIONAL WORKSHOP ON KNOWLEDGE GRAPHS FOR ONLINE DISCOURSE ANAL

April 30, 2021

Learn More: https://bit.ly/3PZoqYo

USF CSE BROADENING PARTICIPATING IN COMPUTING (BPC) AWARD

August 15, 2021

COLLABORATIVE TEAM EARNS DISTINGUISHED PAPER AT SOUPS 2021

September 3, 2021

Learn More: https://bit.ly/3QfSXAK

COLLABORATIVE PAPER EARNS BEST PAPER AWARD AT AFFECTIVE MOVEMENT RECOGNITION CHALLENGE AND WORKSHOP AT ACII 2021

September 28, 2021

Learn More: https://bit.ly/3d7Is5f

LAWRENCE HALL RECEIVES THE 2021 IEEE CIS FUZZY SYSTEMS PIONEER AWARD

October 13, 2021

Learn More: https://bit.ly/3vFWdNW

SRINIVAS KATKOORI AND COLLABORATORS RECEIVE THE BEST PAPER AWARD AT IFIT IOT 2021

December 9, 2021

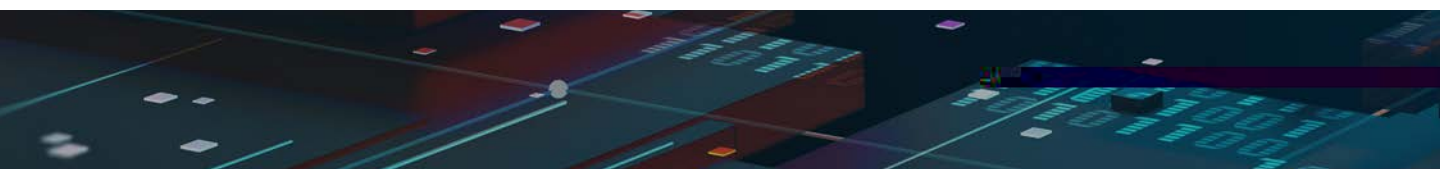
Learn More: https://bit.ly/3zX5kMM

ALESSIO GASPAR RECEIVES 2020/21 OUTSTANDING UNDERGRADUATE TEACHING AWARD

December 10, 2021

NEW HIRES

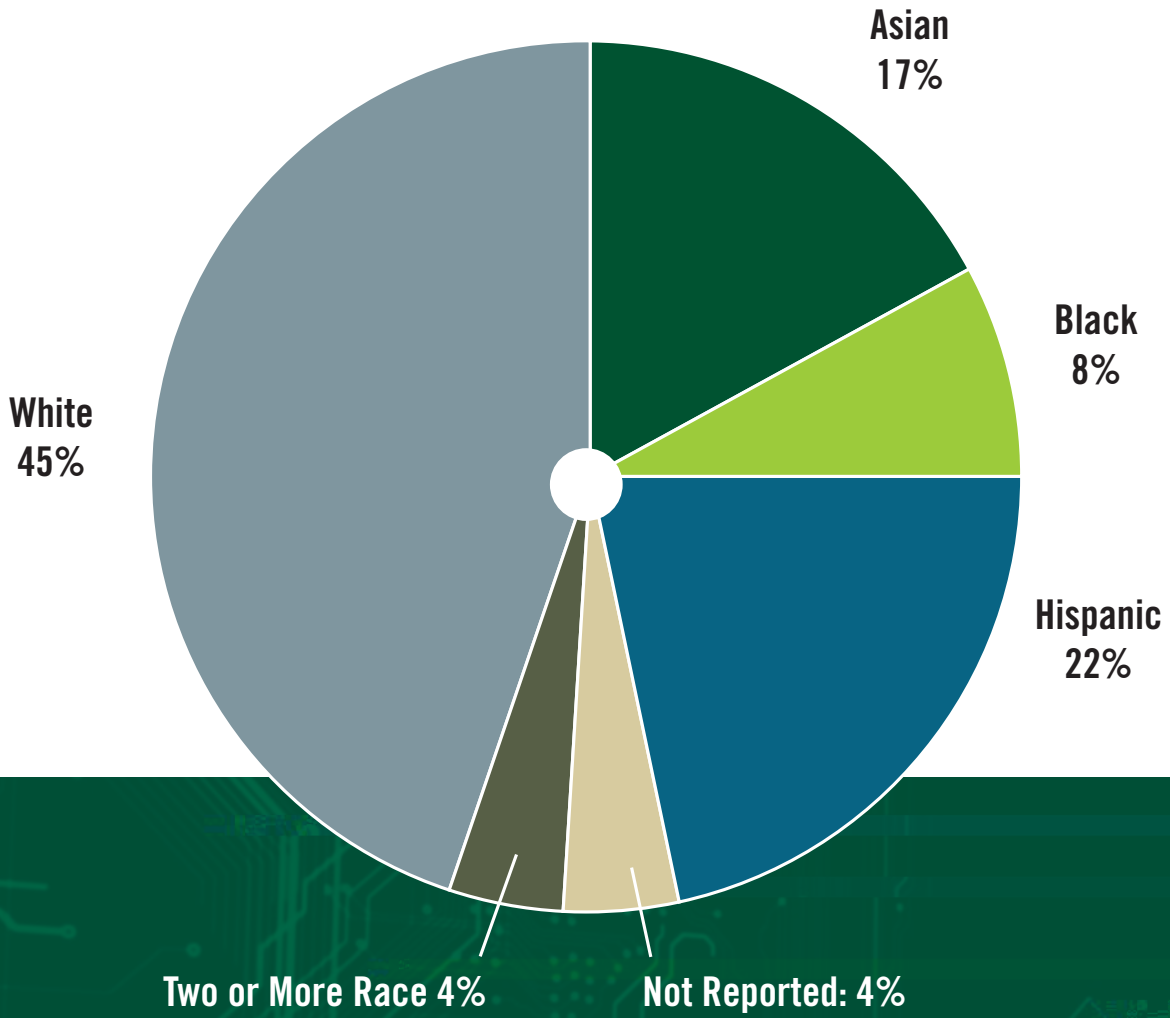
REMEMBRANCE



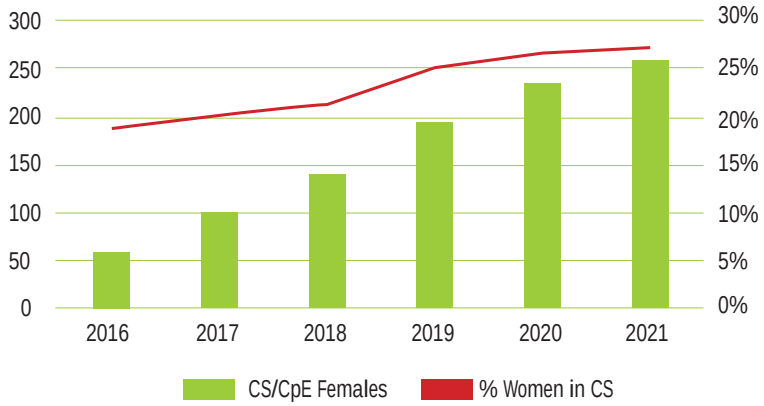
RETIREMENT

DIVERSITY AND INCLUSION

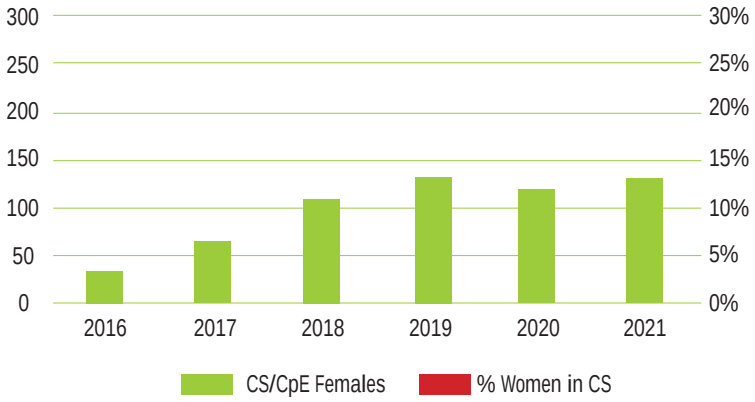
ALL CSE STUDENTS (UG) | FALL 2021



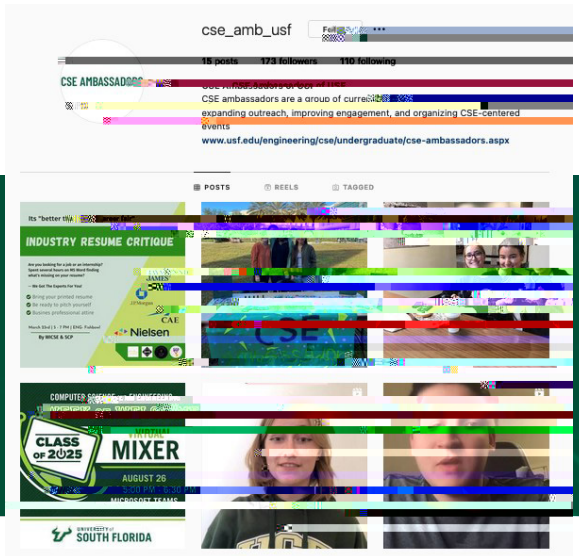
Women in CS/CpE (Fall 2021)

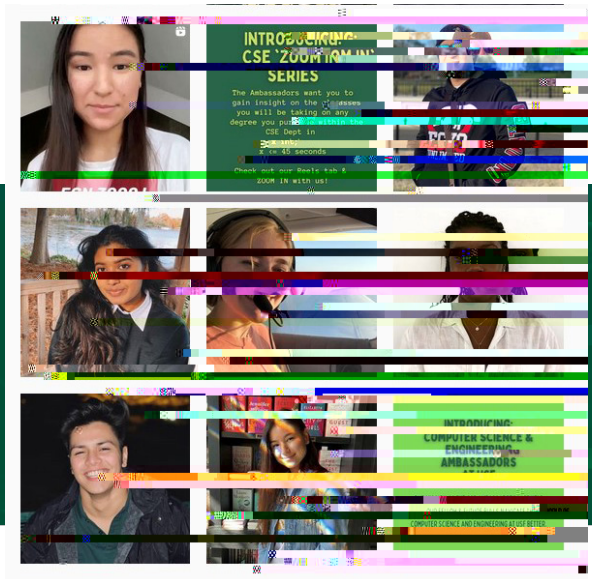


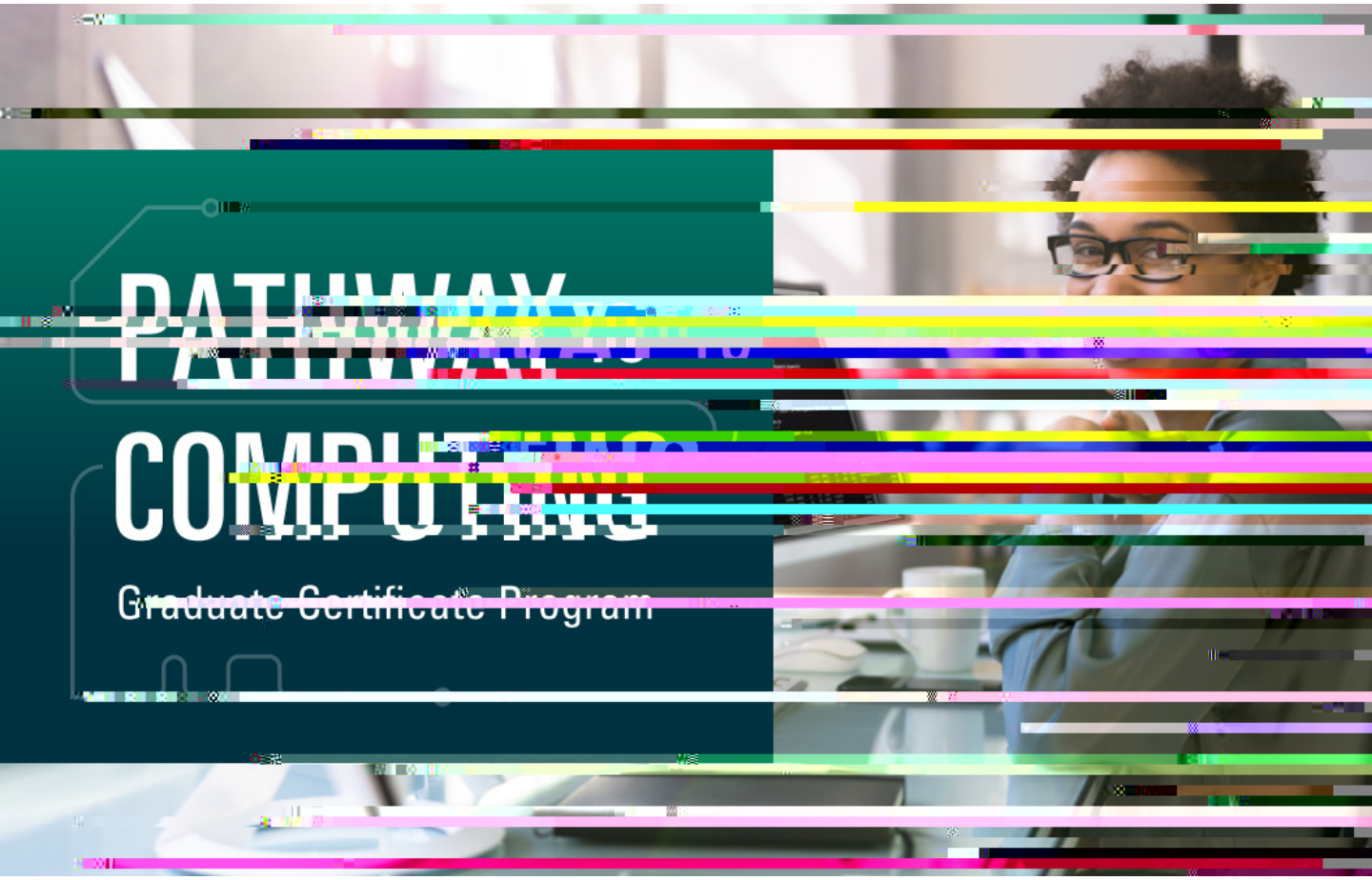
Women in IT/CyS



Evidence-based Effort to Increasing Women in CSE







PATHWAY TO COMPUTING AT GRADUATE LEVEL

Pa a C m a a c ca ama ab Ma Sc c C m Sc c (MSCS) a USF.

A a, Ma (PI) I s B P
A s $8
9 8 3

Ca a a, S a (PI) s i s
I
P A i
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$9 4 98 8 7

(PI) C a a, S am B s A I
s B
A s
s $96
9 3 4

C a a, S am (PI) C , K B s

C , K (PI) Pa R Ra a
P
A $ 4 77 4 7 6 3 6

Ga a, A P $3 77 7 7 3

(PI) Ka , S a A
$99 994 4 9 3

(PI) Ha , La c G , Dm
$ 7 6 6 3

G , Dm (PI) Sa a, S S , Y A
A P
A $ 7 838 9 3 6 9 9

P (PI) G , Dm (PI) Ha , La c P
A B $899 9 9 9 3

Iam c , A a a (PI) Ha , La c /
A A PA $ 7 4 6 7

Ka am, R b (PI)
B
$ 7 83 9 8 3

Ka am, R b (PI) Ka , S a M a a- K ma , M a
$499 4 4 3 3

A (PI) P Ka , S a
B P A (B) $ 7 3

Lab a , M (PI) S , Y
$439 8 6 3 7

L ca , J
A
$6 4 9 3 7 3 4

L ca , J A A
A A $4 8 3

P (PI) L a , Ja B
A
$ 4 989 8 8 3

L , Ya A A P
$ 9 7 3 3 6 8

L , Ya (PI)
$ 9 3 3

M a a K ma , M a A
A
$ 4 4 4

M a a K ma , M a
A A
A $3 8 9 3

N a, T m (PI) Ca a a , S a A
A A A
$ 33 9 4 3 3 3

(PI) N a, T m A
9 $ 7 4 6

(PI) Na, Tm

O, Xm (PI) La, Ja

O, Xm

(PI) O, Xm

R, Pa

A **R, Pa**

Sa a, S (PI) Lca, J

Sa a, S (PI)

Sa a, S (PI)

Sa a, S (PI)

Sa a, S (PI) Sa a, S

S, Y

S, Y (PI) Dm G

i A ( ) S, Y

T, Yc

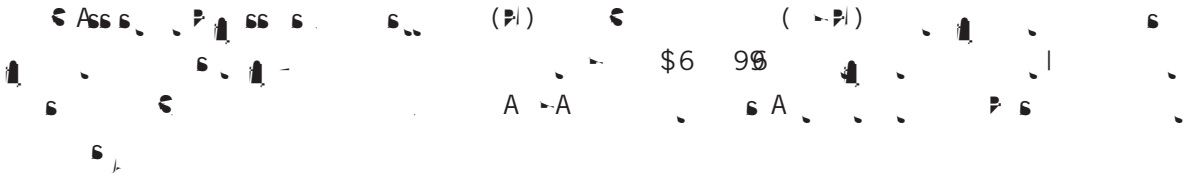
W, A

Ya, A. a A.

Ya, A. a A.

TEMPESTT NEAL AND SHAUN CANAVAN AWARDED $261,996 GRANT

March 24, 2021



Learn More: https://bit.ly/3QpI7cK

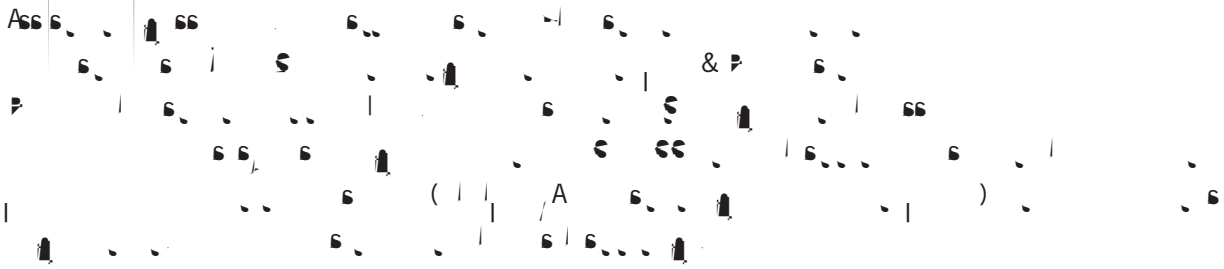
COLLABORATIVE NSF GRANT WILL PROVIDE SCHOLARSHIPS FOR USF CSE STUDENTS

September 11, 2021

Learn More: https://bit.ly/3Ae9gsR

COLLABORATIVE GRANT FUNDED BY NIDILRR/ADMINISTRATION FOR COMMUNITY LIVING

September 21, 2021



Learn More: https://bit.ly/3w3i7eI

SIMON OU FEATURED IN TAMPA'S 83 DEGREES MEDIA ONLINE MAGAZINE

May 26, 2021

YU SUN FEATURED ON ROBOHUB PODCAST

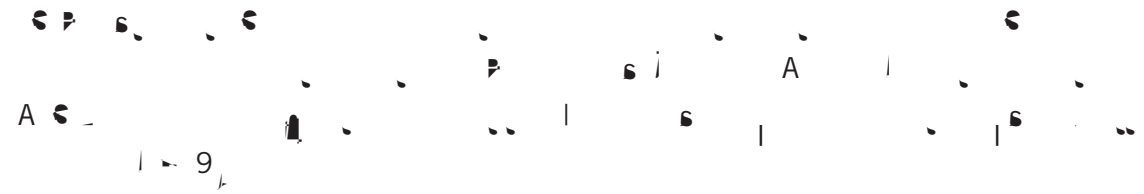
May 21, 2022

The recording can be found here.

Learn More: _____

CSE PHD STUDENT SAMEERA HORAWALAVITHANA AND COLLABORATORS WIN NASN 2021 GRAND CHALLENGE

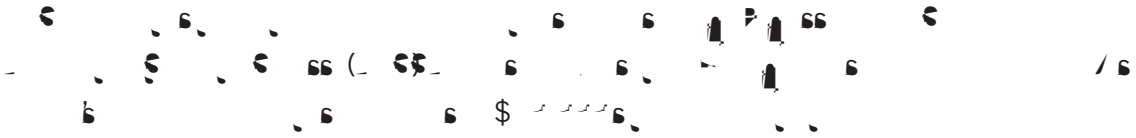
February 9, 2021



Learn more: https://bit.ly/3Ac1f7J

CSE GRADUATE STUDENT QI ZHENG RECEIVES USF GSS FELLOWSHIP

March 2, 2021

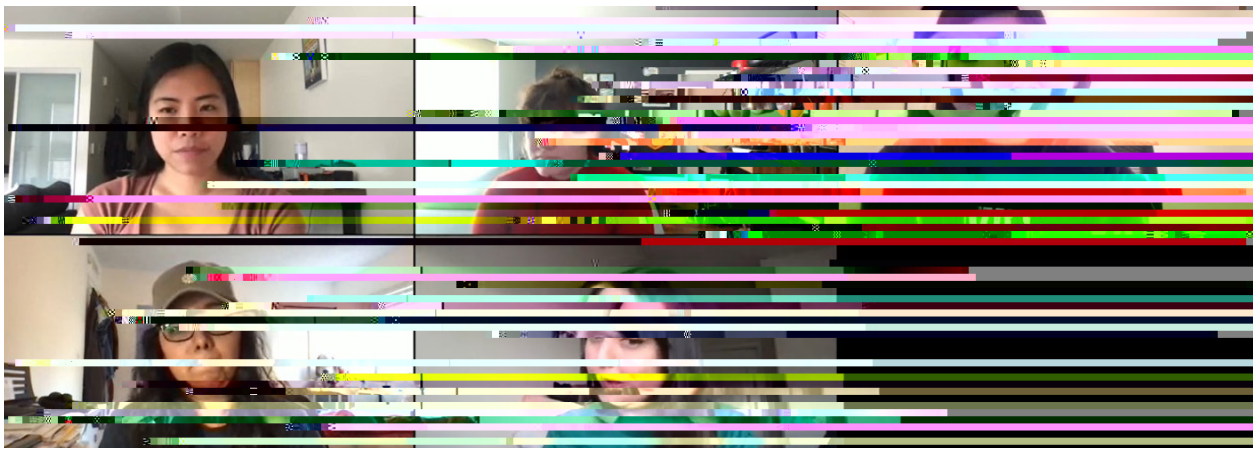


Learn more: https://bit.ly/3SEYTW4

CSE STUDENT DELONG YANG INDUCTED INTO PHI BETA KAPPA

April 1, 2021

Learn more: https://bit.ly/3p6TBol



CSE STUDENTS WIN BIG AT 2021 HACKABULL

March 18, 2021

TWO DOCTORAL STUDENTS AWARDED 2021 COMPUTING INNOVATION FELLOWSHIPS

September 9, 2021

Learn more: https://bit.ly/3phCXme

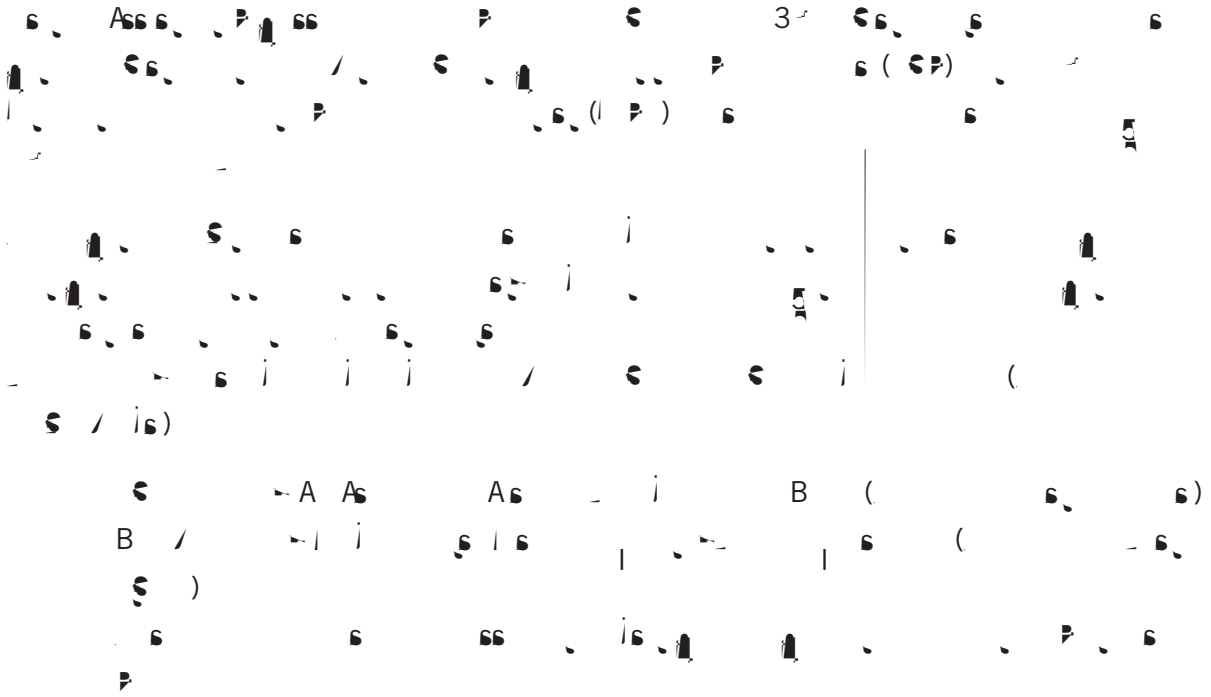
OUTSTANDING GRADUATE STUDENT AWARDS

November 10, 2021

Learn more: https://bit.ly/3C3XodY

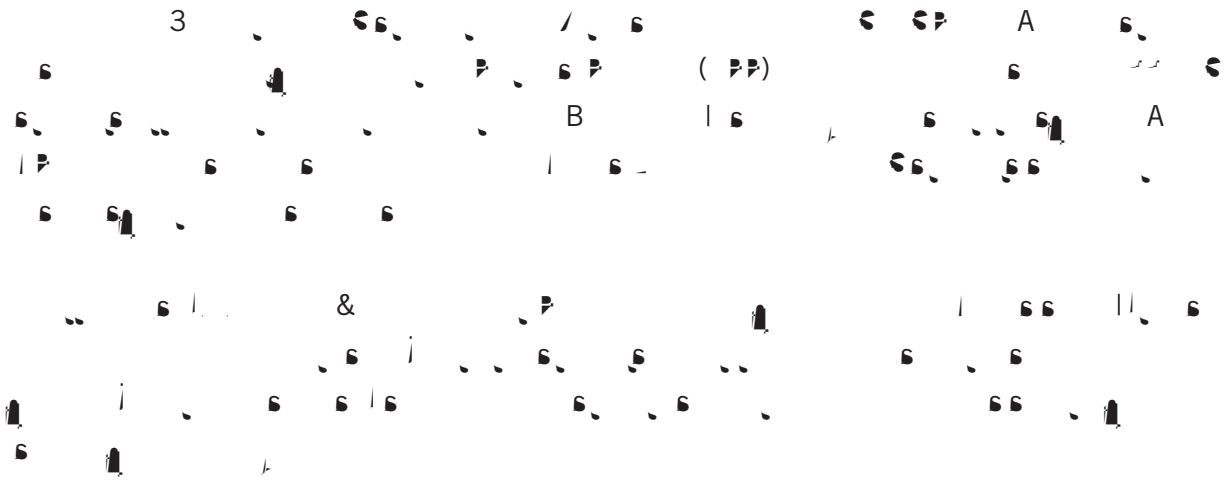
CSE STUDENTS COMPETE AT REGIONAL 2022 INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST

March 5, 2022



CSE COMPUTING PARTNERS PROGRAM RESUME REVIEW EVENT WAS A SUCCESS

March 23, 2022



Learn more: https://bit.ly/3vR30tm

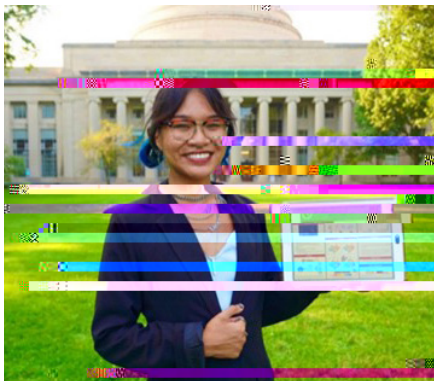
USF CSE STUDENTS LEAD TEAM TO SECOND PLACE AT 2022 NATIONAL CENTERS OF ACADEMIC EXCELLENCE NSA CYBER EXERCISE

April 13, 2022

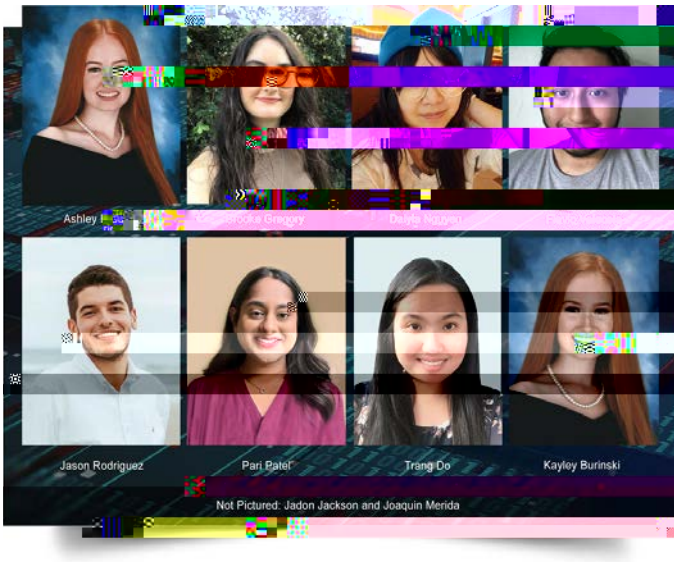
Learn more: https://bit.ly/3p7rTIj

CSE GRADUATE ADRIANA LADERA AWARDED NSF GRADUATE RESEARCH FELLOWSHIP

May 9, 2022



Learn more: https://bit.ly/3Qh61GD



TEN CSE STUDENTS AWARDED AMAZON CYBERSECURITY SCHOLARSHIP

June 6, 2022

Learn more: https://bit.ly/3BQhtVg

LEVERAGING A PHD INTO A BOUNDARY PUSHING CAREER

Rekha Govindaraj

PHD COMPUTER SCIENCE & ENGINEERING

"Sometimes you have to try again and again to learn the things you need to. Don't be overwhelmed by it. Be focused on the bigger picture, and you'll be able to do it at the end."

Read Rekha's Story:
https://bit.ly/2oc3o0F

LEADING THE WAY FOR OTHERS

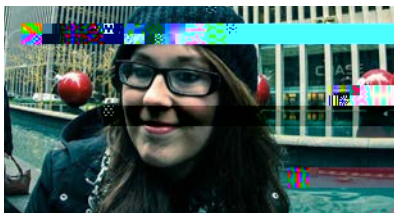
Meryem Berrada

BS, MS IN COMPUTER SCIENCE

"One of the things I see in my field is there are not enough women, though I see more every year."

Read Meryem's Story:
https://bit.ly/32doieJ

FIGHTING CYBERCRIME WITH ENGAGING CONTENT



Natalie Koly

BS IN INFORMATION TECHNOLOGY

"Whatever career you're working on now, that may not be your future career, so learn more things and make yourself more skilled in different areas, and that way you can evolve."

Read Natalie's Story:
https://bit.ly/2mBG3F1

PHD GRADUATE GHULAM JILANI QUADRI WINS THE COVETED VGTC'S DISSERTATION AWARD FOR 2021

June 18, 2022

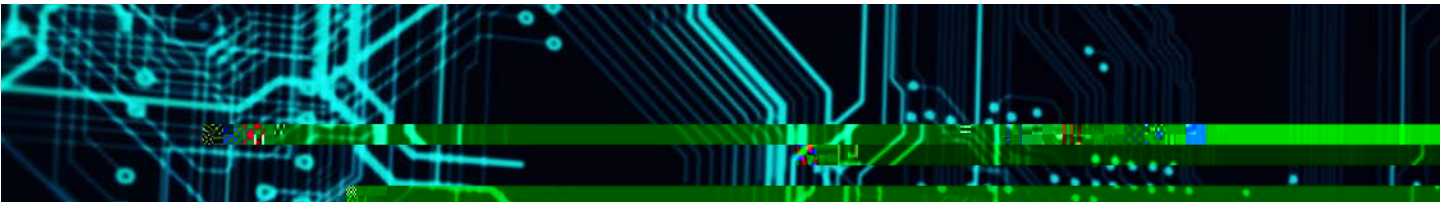
2021-22 PH.D. GRADUATES AND PLACEMENT

NAME	ADVISOR(S)	PLACEMENT

EXTERNAL ADVISORY BOARD

They accomplish the following:

COMPUTING PARTNERS PROGRAM



OUTSTANDING ALUMNI

CSE ALUMNA, GHADA ZAMZMI, SELECTED AS ONE OF 10 MIT TECHNOLOGY REVIEW INNOVATORS UNDER 35 MENA

January 11, 2021

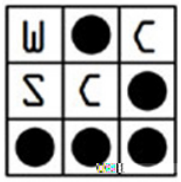
Learn More:

CSE ALUMNI RANSFORD HYMAN RECEIVES 2021 ADOBE FOUNDERS AWARD

January 21, 2022

CSE STUDENT ORGANIZATIONS

WOMEN IN COMPUTER SCIENCE AND ENGINEERING (WICSE)



WHITEHATTERS COMPUTER SECURITY CLUB (WCSC)

SOCIETY OF COMPETITIVE PROGRAMMERS (SCP)

ROBOBULLS

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS COMPUTER SOCIETY (IEEE - CS)

B

B

A

GIRLS WHO CODE COLLEGE LOOPS

B

A

GAMEDEV CLUB

( )

B

A

BRAIN-COMPUTER INTERFACE (BCI) CLUB

B

A A

ASSOCIATION FOR COMPUTING MACHINERY (ACM)

B

A