



LETTER FROM THE DIRECTOR



FACULTY & STAFF UPDATES



\hdg.## a cbc[fU Ug"YX]hcf]U"i dj "Yg#]bXYI "d\d#NtbS *\$#

5`]gcb`gdc_Y`Uh`h\Y`gYgg]cb` 9Xi WUh]cb`UbX`DfcZYgg]cb`FYU`]h|Yg`]b`8] YfYbh; `cVU` 7cbhYl hg`Uh`h\Y`WY`YVfUh]cb`cZ`h\Y` fgh`Ubb]j YfgUfmcZ'h\Y`5WWXYa]W7cbgYfj Uh]cb`

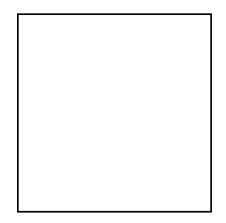
FcV]b 7Ub\Ua žA 57 &&Lcb h\Y`H" < "`GUi bXYfg DUdYf GUa d`Y`Dfc YVM"H\Y` fghd\UgY` cZh\Y`H' < "`GUbXYfg dfc YVMZH' < "`GUi bXYfg' 7c"K UhYfa Uf_YX DUdYfgzk Ug dfYgYbhYX`





 $\verb|cddcfhi|b|| \verb|hm|hc|| df \verb|UWh|| \verb|W|| i g || b[`X] Yf Ybh `UX \ Yg || j Yg `UbX `hY W \ b || ei Yg `hc `gi ddcfh `Zf U[] `Y `land `Y \ b || b[`Y \ b] || b[`Y \$

 $5fh] \hbox{\it ZJV} \hbox{\it Mg$'$ Dfc$\it ZY$ ggcf$'9a$ mi?] a `` Ug`VYYb`k YUf] b['hkc'cf'hhfYY'X] YfYbh`` Uhg'hh] g'd Ugh' a share for the control of the control of$

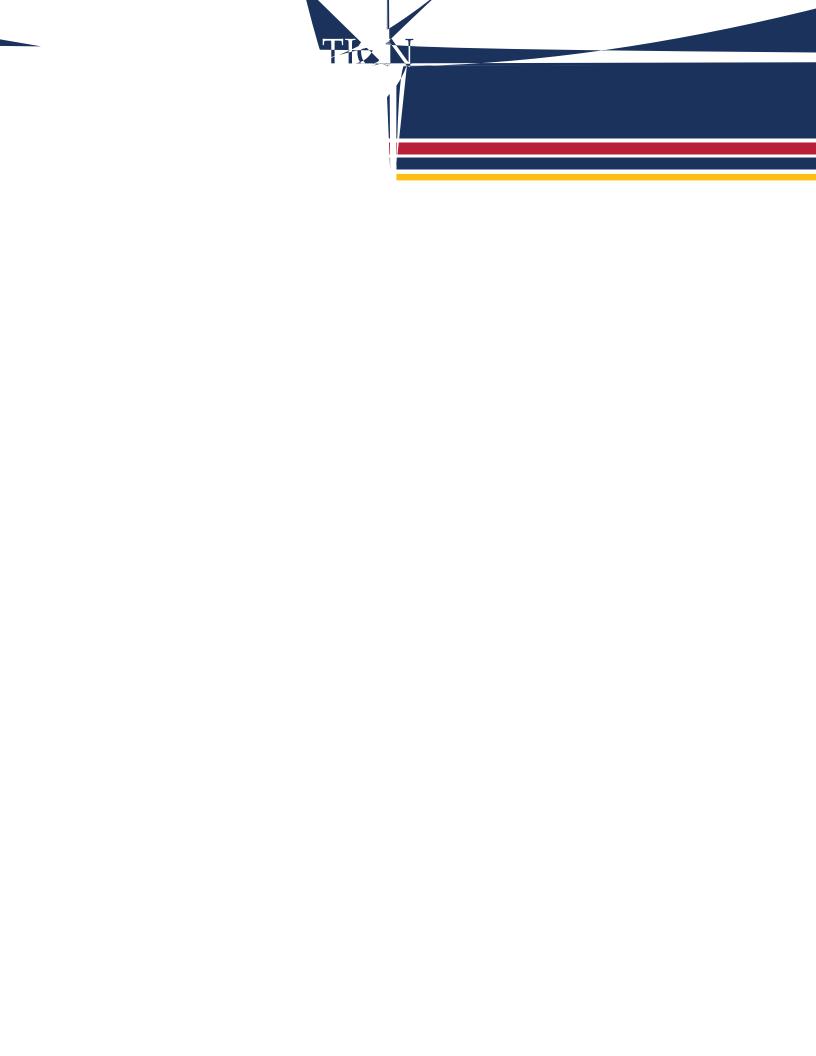


 $Y \ Y \ W \ b c`c[] \ W \ W \ U b [Y g \ `] \ Y \ a \ c \ X \ Y \ b \ [\ '] \ b`A \ U m \& \& \ `U h' h \ Y \ '7 \ U b \ U X] \ U b \ `$



FACULTY & STAFF UPDATES

 $\label{thm:linear_property} \mbox{Df]bV} \mbox{M} \mbox{Yg']b'dYfgcb'hc'h\Y' fghmYUf'ghi XYbhg/h\Y]f']bZYVMjci g'Ybh\i g]Uga 'a UXY']h' \\ \mbox{W} \mbox{Yg'} \mbox{W} \mbox{M} \mbox{W} \mbox{M} \mbox{Yg'} \mbox{W} \mbox{W} \mbox{W} \mbox{Yg'} \mbox{W} \mbox{W} \mbox{Yg'} \mbox{W} \mbox{W} \mbox{W} \mbox{W} \mbox{W} \mbox{W} \mbox{Yg'} \mbox{W} \mbox{W$





2021 GRADUATES



 $cZ\ bY`Ufh`GUfU\ `GdU\ cfX`F]WV''?f]gfm\ Ug`[fYUhmYb'cmYX`\Yf`a\ cj\ Y`ci\ h`hc`6"7"`UbX`$

 $ghi~XYbhg`UbX`ghU~~`]b`h\Y`K~I~~8D57~5fh~7cbgYfj~Uh]cb`Dfc[~fUa~~UbX~]b~~5df]``&$\&\&`g\Y`~$

XYW&fUhjj Y"Ufhg" Y"Xg"



SECOND-YEAR STUD	<u>DENTS</u>
	k UgʻjYfmX] YfYbhih\Ubʻh\YWoʻbgYfjUhjcbʻhfYUhaYbhgʻg\Y`\Ugʻk cf_YXʻcbʻjbʻh\Y`EiYYbgʻ
	GUbXf]bY'6`U]gfA 57`&&L]g]bh\Y`fghghYdgcZWcbgYfj]b[h\]g% 7fcgg`]h\c[fUd\'h]hYX'@YffUbH''G\Y']g'd]Wn fYX'\YfY'gifZUW'WYUb]b[ig]b[`bY'YfUgYf'
	ZcW/gYX*cb*h\Y*]b iYbW*cZaYhU*g*]cb*acjYaYbhk]h\]b*c]**dU]bhg"
	7Ua]``Y`Hi fbYf! <y\`yb`fa 57`&&łgdybh\yf`="" cf_]b[`uh'5fh'7cbgyfj="" fgh]bhyfbg\]d`k="" td="" uh]cb`<=""></y\`yb`fa>
	fYWorbghfi WhjcbcZg][b] WWbh`cggYgcZZfUaYac`X]b[g" <yfau]bdfc^ywhzcfh\ygiaayf< td=""></yfau]bdfc^ywhzcfh\ygiaayf<>

ZUW hg c Zh\ Y WcbgYfj Uh]cb Y`X"

 $k \ Ug'h \ Y'W \ bg Yf j \ Uh \ c \ Z'Ub' \ F'' < '''K \ \ U'Y \ z'k \ \]W \ c \ \ Yf YX' \ cddc fh' \ b]h] Yg'hc' \ df UW M \ a \ Ubm' \ a \ Ubm'' \ bg Yf Y \ cddc fh' \ b]h] Yg'hc' \ df UW M \ a \ Ubm'' \ a \ Ubm'' \ bg Yf Y \ cddc fh' \ b]h] Yg'hc' \ df UW M \ a \ Ubm'' \ a \$



 $H\]gmYUf\ 9a\ a\ U;\ f] \quad h\ gfA\ 57\ \&\&\&\ UgVYYb\ dYfZcfa\]b[\ U\ hYVV\ b]WV\ UbU\ mg]gcb\ U\ h\]fX$

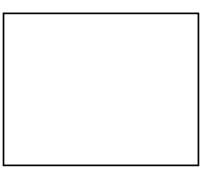




 $\label{eq:continuous} $$h\YfY{\check z} = WY \cdot YUWY = (-cZ'U'A cff)g'@ci g'Wc'ci f' Y'X'dU]bh]b[''' \approx WY'mb g'' = (-cZ'U'A cff)g'' = (-cZ'U'A cff)g''$



 $fghghYdg\ cZh\]g\ `Uf[\ Yf\ gWU\ Y\ dfc\ YWhk\ YfY\ Wca\ d\ YhYX\ Xi\ f]b[\ h\ Y\ k\ ccX\ gY[\ a\ YbhcZh\ Y\ b]$







Second-Year Research Projects and Thesis

(PPD *UL]WKV 7KH 7HFKQLFDO \$QDO\VLV RI D 7KLUG "QWHUPHGLDWH 3HULRG"
3XL <HH /DP \$ 3UHOLPLQDU\ (YDOXDWLRQ RI 0LQHUDO 6SLULW %RUQH 5HWR)



RESEARCH UPDATES





Bader Artifacts Fellow:



MIMO Project

fD 8 '&\$% !%\$**%'; 6!%\$\$EZ bXYX`Vmih\Y`Dfc[fUa U'9ghUhU``XY`: ca Ybhc`XY``U` bj Ygh][UV]\i b`7]YbhÉ VW`mHÅV\b]\W`XY`
f\i bY`&\$&\$!\si bY&\$&' E'sK Y`k ci `X``]_Y`hc`U`gc`U\bck`YX[Y`; c`XYb`5fh]gh7c`cfg`Zcf`h\Y`dU]bhg`gi dd`]YX`Zcf`h\Y`fYgYUf\W\"s





CSEO CONFERENCE

Uhi6i U'c'GHJHY'UbX'?mbU'6][[g'Zfca 'DUf_g'7UbUXU'cf[Ub]nYX'U'j]fhi U'WtbZYfYbW']b'≯bY'&\$&&'cb'h\Y'hcd]WcZ'HYUW\]b['gWJYbW']b'W'hfu'\Yf]hU[YžWJ'YX'7cbgYfjUh]cb'GWJYbW'9XiWlh]cb'Cb`]bY'cf'7G9C'ss

\hdg.##kkkleiYYbgi"\W#Ufh#WebgYfjUh]cb!gW]YbW!YXiWWh]cb!cb`]bY!]bUi[ifU'!WebZYfYbWrs





IN MEMORIAM

Ronald F. Irvine (1927-2021)

]b`D\chc[fUd\m]bhc`Ub`]b i Ybh]U``WufYYf"'5g`k Y```Ug`hYUW\]b[`d\chc[fUd\]W\]ghcfmž h\Ycfm UbX`hYW\b]ei Yg`hc`5fh`]b`h\Y`dfY!X][]hU``U[Y`a][\hifYWJ```k fYgh]b[`k]h\`h\Y`j]Yk`WJaYfUžU``!b][\higYgg]cbg'XYjY`cd]b[``a`UbX`Fcbg'k cbXYfZl``

Dr. Isabel Overton Bader (1926-2022)

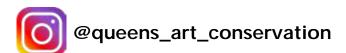
Margaret Anne Light (1927-2022)

 $fYgYUfWk''UbX''hfYUha\ Ybh'''\ h'k\ Ug'U'd'YUgi\ fY'hc''k\ cf_'k\]h\lambda''A\ Uf[\ \check{z}k\ \backslash\ c'U''k\ Umg'Yl\ dfYggYX'gi\ Wk''U'[\ Ybi\]bY']bhYfYgh']b'ci\ f'\ Y'X''$





SOCIAL MEDIA



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