



Office of Research & Sponsored Programs

FY 2021 ANNUAL REPORT



Extramural Grant Awards, FY 11 -21

Scholarly Publications, 2020 - 2021

IRB Listing, FY 2021

Office of Research & Sponsored Programs

FY 2021 ANNUAL REPORT

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Letter from Vice Provost of Research & Sponsored Programs **Dr. Rachael T. Leon Guerrero**



Håfa Adai!

In FY2021, we continued to face considerable challenges resulting from the COVID-19 pandemic. Despite these challenges, the University of Guam continued to thrive, thanks to the dedicated and hardworking faculty and staff who remained focused and resilient.

Research is an integral part of our mission, as UOG is a land-grant university. UOG's researchers from the various research units, including the Marine Lab, the Water & Environmental Research Institute, the Western Pacific Tropical Research Center, the Center for Excellence in Developmental Disabilities Education, Research & Service, and the Micronesian Area Research Center, continue to support UOG's Para Hulo' strategic initiative of "being recognized as a RESEARCH UNIVERSITY centered in island wisdom." Through our diverse research portfolio – whether we are studying Karst geology, Guam's aquifer, childhood obesity, factors contributing to cancer health disparities, coral reef health, developmental disabilities, endangered plants, or invasive species – we are contributing to the knowledge and wisdom of our island residents.

Our University holds an impressive national standing for an institution of our size. In the latest data released from the National Center for Science and Engineering Statistics, UOG ranks in the top 43% of institutions for total grant-funded research and development expenditures. We are pleased to report that continued progress has been made in our research efforts, and this has been another great year for research and scholarly achievements here at the University of Guam.

In FY2021, UOG continued its ongoing grants, including the National Science Foundation-funded EPSCoR-GECCO grant, the National Cancer Institute-funded Pacific Island Partnership for Cancer Health Equity (U54-PIPCHE) grant, the National Oceanic & Atmospheric Administration-funded Sea Grant, and CEDDERS funding. We also received new cycles of NASA EPSCoR Research Infrastructure Development funding and funding for the Pacific Islands Climate Adaptation Science Center.

Additionally, the University was extremely fortunate to be granted \$8.5 million from the U.S. Department of Commerce Economic Development Administration to help fund construction of two new buildings on campus. Federal funding to UOG in FY2020 and FY2021 was unusually high, as with most other universities across the country, due to CARES Act funding.

In FY2021, we continued to collaborate with multiple off-island scientists and institutions, provided employment to the local community, and offered students the opportunity to gain valuable research experience.

Many challenges lie ahead for us all, but I am confident in the abilities and commitment of our faculty and staff here at UOG who continue to remain competitive in securing extramural funding. The Office of Research & Sponsored Programs is here to serve our University family and community stakeholders, so please feel free to contact our office if you have any questions or need additional information.

Si Yu'os Ma'åse,

Rachael T. Leon Guerrero, PhD, RDN

Professor of Nutrition

Vice Provost of Research & Sponsored Programs

CHART 1
Annual Grant Funding
2011 - 2021

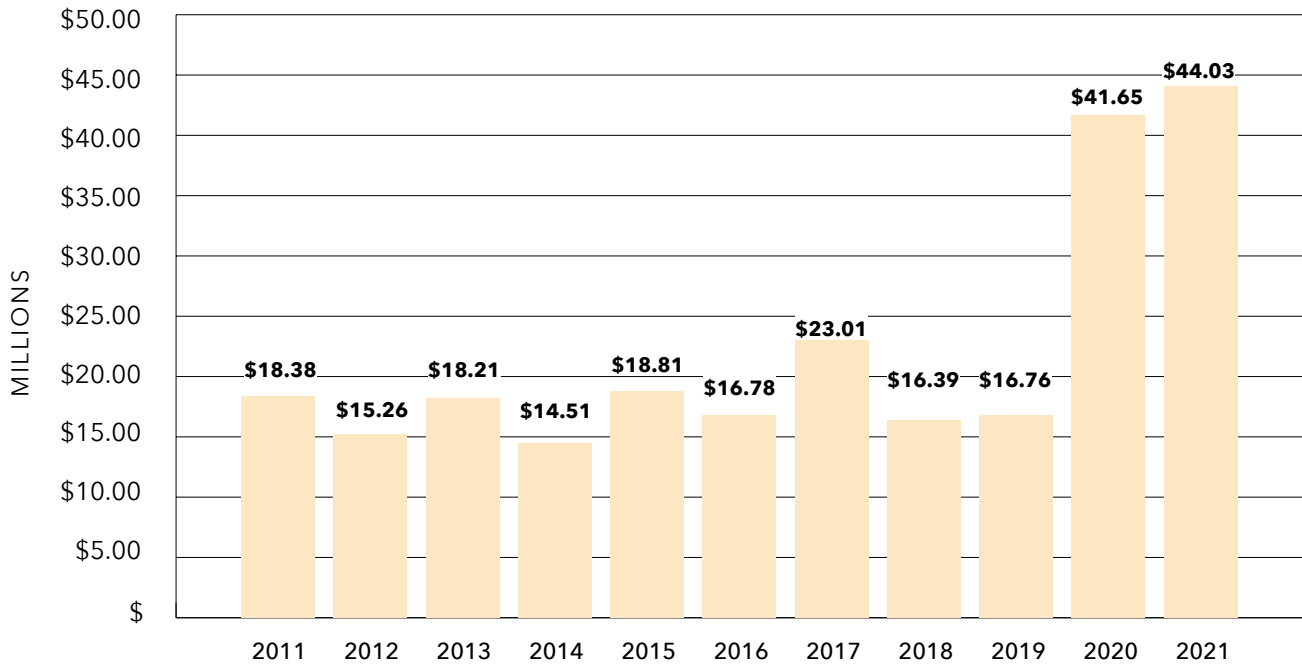


FIGURE 1
Annual Grant Funding
2011 - 2021

| Fiscal Year | Grant Amount | Percentage |
|--------------------|-------------------------|----------------|
| 2011 | \$18,378,089.44 | 7.54% |
| 2012 | \$15,255,443.64 | 6.26% |
| 2013 | \$18,208,542.37 | 7.47% |
| 2014 | \$14,514,119.70 | 5.95% |
| 2015 | \$18,811,616.03 | 7.72% |
| 2016 | \$16,781,813.93 | 6.88% |
| 2017 | \$23,014,396.47 | 9.44% |
| 2018 | \$16,390,953.73 | 6.72% |
| 2019 | \$16,757,653.78 | 6.87% |
| 2020 | \$41,652,197.66 | 17.08% |
| 2021 | \$44,030,995.89 | 18.06% |
| Grand Total | \$243,795,822.64 | 100.00% |

CHART 2

Federal vs. Non-Federal Awards by Year

2011 - 2021

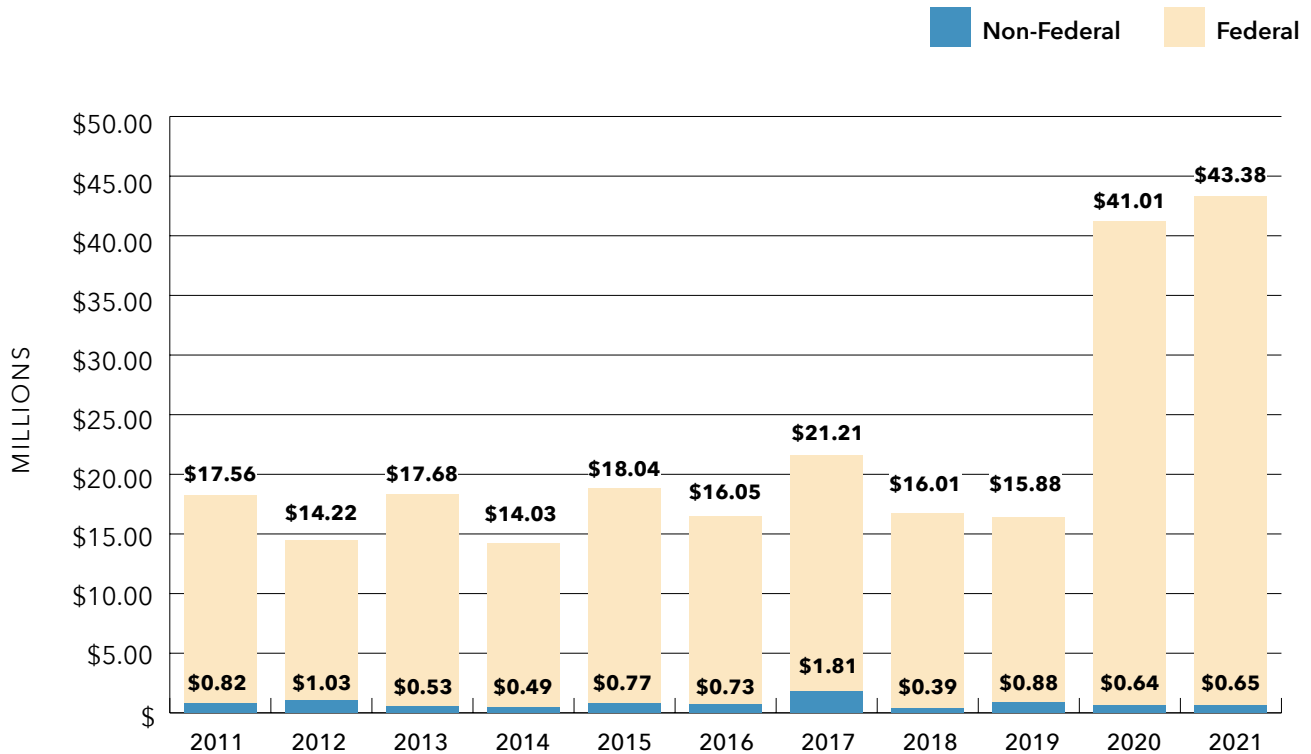


FIGURE 2

Federal vs. Non-Federal Awards by Year

2011 - 2021

| Fiscal Year | Federal | Non-Federal | Grand Total |
|--------------------|-------------------------|-----------------------|-------------------------|
| 2011 | \$17,558,123.44 | \$819,966.00 | \$18,378,089.44 |
| 2012 | \$14,224,680.27 | \$1,030,763.37 | \$15,255,443.64 |
| 2013 | \$17,675,851.88 | \$532,690.49 | \$18,208,542.37 |
| 2014 | \$14,026,350.70 | \$487,769.00 | \$14,514,119.70 |
| 2015 | \$18,038,141.35 | \$773,474.68 | \$18,811,616.03 |
| 2016 | \$16,047,216.93 | \$734,597.00 | \$16,781,813.93 |
| 2017 | \$21,205,767.47 | \$1,808,629.00 | \$23,014,396.47 |
| 2018 | \$16,005,945.73 | \$385,008.00 | \$16,390,953.73 |
| 2019 | \$15,881,461.98 | \$876,191.80 | \$16,757,653.78 |
| 2020 | \$41,011,256.66 | \$640,941.00 | \$41,652,197.66 |
| 2021 | \$43,377,594.89 | \$653,401.00 | \$44,030,995.89 |
| Grand Total | \$235,052,391.30 | \$8,743,431.34 | \$243,795,822.64 |

CHART 3
Number of Federal vs. Non-Federal Awards
2011 - 2021

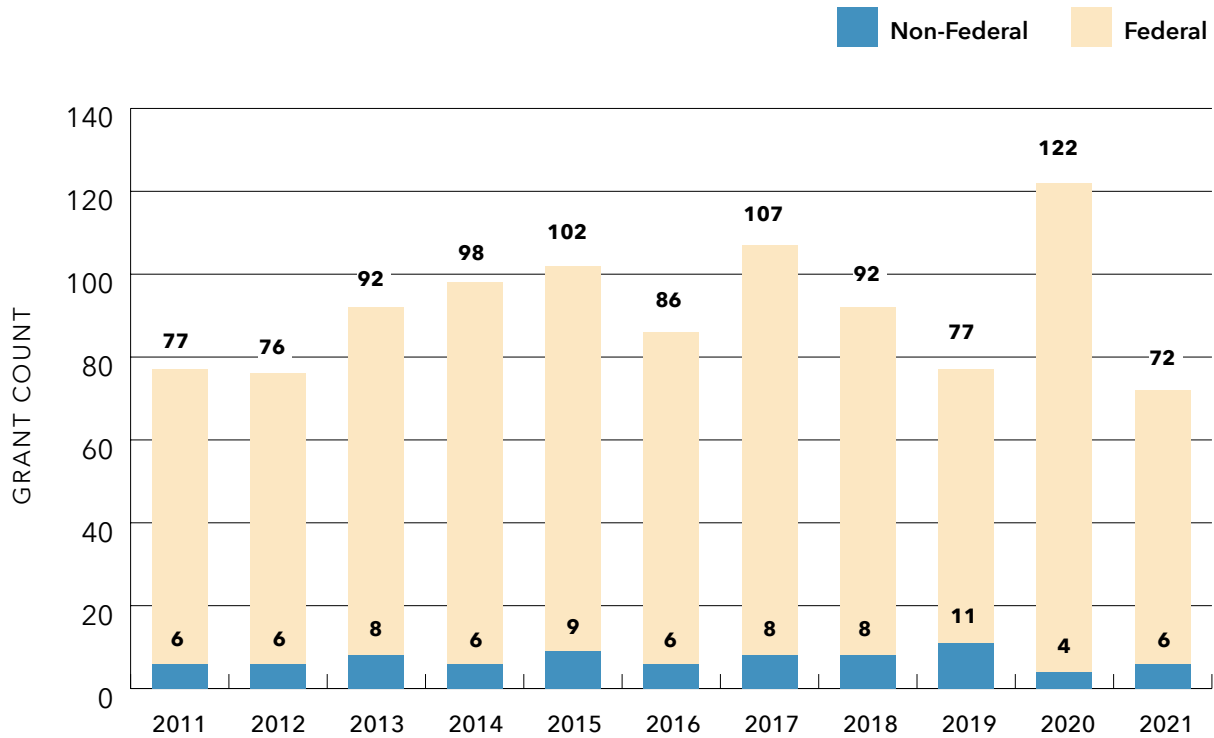


FIGURE 3
Number of Federal vs. Non-Federal Awards
2011 - 2021

| Fiscal Year | Federal | Non-Federal | Grand Total |
|--------------------|-------------|-------------|-------------|
| 2011 | 77 | 6 | 83 |
| 2012 | 76 | 6 | 82 |
| 2013 | 92 | 8 | 100 |
| 2014 | 98 | 6 | 104 |
| 2015 | 102 | 9 | 111 |
| 2016 | 86 | 6 | 92 |
| 2017 | 107 | 8 | 115 |
| 2018 | 92 | 8 | 100 |
| 2019 | 77 | 11 | 88 |
| 2020 | 122 | 4 | 126 |
| 2021 | 72 | 6 | 78 |
| Grand Total | 1001 | 78 | 1079 |

FIGURE 4**Top Principal Investigators by Funding (≥ \$100K)****2021**

| Rank | Principal Investigator | Grant Amount | PI's Unit | Award Sponsor | Title |
|------|---|----------------|--------------|----------------|---|
| 1 | Cathleen Moore-Linn (PI), John Jenson (Co-PI), Margaret Hattori-Uchima (Co-PI), Rachael Leon Guerrero (Co-PI) | \$8,500,000.00 | ORSP | DOC/EDA | UOG Scientific Education and Research Facilities Construction Project |
| 2 | Anita Enriquez | \$6,092,081.00 | SVPP | USDOE | CARES Act ARP Student Aid Portion |
| 3 | Anita Enriquez | \$6,077,488.00 | SVPP | USDOE | CARES Act ARP Institutional Portion |
| 4 | Terry Donaldson (PI), Bastian Bentlage (Co-PI), Austin Shelton (Co-PI), Rachael Leon Guerrero (Co-PI) | \$4,624,293.00 | ORSP | NSF | EPSCoR GECCO Y2 |
| 5 | Rachael Leon Guerrero (PI), Margaret Hattori-Uchima (Co-PI) | \$1,422,643.00 | ORSP | NCI | U54 PIPCHE Y2 |
| 6 | Else Demeulenaere | \$999,100.00 | SG | DOI/DOAG | Islandwide Habitat |
| 7 | Glenn Dulla, Cathleen Moore-Linn | \$866,426.00 | RCUOG (DOAg) | DOI/DOAG | Dog Detective |
| 8 | Annette Santos, Fred Granillo | \$755,556.00 | SBPA | SBA | SBDC |
| 9 | Veronica Alave, Margaret Hattori-Uchima | \$749,538.00 | SOH | HHS/HRSA/BHW | Geriatrics Workforce Enhancement Program Y3 |
| 10 | Carlos Taitano | \$589,764.00 | GLE | HHS/DPHSS | COVID19 Vaccination Clinic & Outreach |
| 11 | June De Leon | \$577,449.00 | CEDDERS | HHS/ACL | Guam CEDDERS - CORE Grant |
| 12 | Rowena Andrade | \$478,486.00 | EMSS | ED | Upward Bound Main 21-22 |
| 13 | Austin Shelton | \$475,000.00 | ORSP | DOC/NOAA | Sea Grant |
| 14 | Myeong-Ho Yeo (PI), Yong Sang Kim (Co-PI) | \$443,105.00 | WERI | DOD/DON (CESU) | Water Quality Monitoring on JRM Submerged Lands Guam |
| 15 | Lovelynn Mongami | \$409,407.00 | EMSS | ED | Talent Search |
| 16 | James McConnell | \$396,162.00 | CNAS | DOD/DON (CESU) | Cycads Monitoring at AAFB & Tinian MLA |
| 17 | Annette Santos, Boris Hertslet | \$393,992.00 | SBPA | DOD/DLA | PTAC |
| 18 | June De Leon | \$361,534.00 | CEDDERS | ED-GDOE | SSIP (State Systemic Improvement) GDOE |
| 19 | Chrislynn Takawo | \$335,111.00 | EMSS | ED | Student Support 21-22 |
| 20 | Austin Shelton | \$325,000.00 | ORSP | DOC/NOAA | Sea Grant |

| Rank | Principal Investigator | Grant Amount | PI's Unit | Award Sponsor | Title |
|------|---|--------------|--------------|-----------------------------|--|
| 21 | Carlos Taitano | \$310,000.00 | GLE | HHS/BBMR | COVID CONT TRA/TNA PR Contact Tracing |
| 22 | Brett Taylor | \$279,786.00 | MARI | DOC/NOAA | Fisheries/Dev/UTIL Fisheries Development and Utilization |
| 23 | June De Leon | \$275,000.00 | CEDDERS | HHS/DPHSS | PDG B-5 PRESCHOOL DEVT GRANT |
| 24 | June De Leon | \$235,000.00 | CEDDERS | HHS/HRSA | Ear-Hear |
| 25 | June De Leon | \$232,308.00 | CEDDERS | ED/GDOE | GDOE Part B |
| 26 | Fran Castro | \$199,849.00 | SG | USDA | Ugum Restoration |
| 27 | Leslie Aquino | \$173,796.00 | ORSP | NASA | NASA RID |
| 28 | Shane Siers (UH), Cathleen Moore-Linn | \$168,622.00 | RCUOG | HHS/DPHSS | No Wrong Door |
| 29 | June De Leon | \$163,601.00 | CEDDERS | BBMR | COVID Response |
| 30 | Annette Santos | \$150,000.00 | SBPA | BBMR | COVID Response |
| 31 | June De Leon | \$149,987.00 | CEDDERS | ED/GDOE | GEIS Part C-4 GDOE Part C |
| 32 | Romina King | \$144,609.08 | MARC | DOI/USGSUH | PICASC - Coral Reef Bleaching |
| 33 | Margaret Hattori-Uchima | \$142,479.00 | SOH | NIH-PSU | EXITO RESEARCH CORE |
| 34 | June De Leon | \$142,297.00 | CEDDERS | PW Ministry of Ed, Sp Ed | Palau Contract Part B |
| 35 | Glenn Dulla, Cathleen Moore-Linn | \$140,000.00 | RCUOG (DOAg) | USDA | CRB Management |
| 36 | Romina King | \$140,000.00 | MARC | DOI/USGSUH | Pacific Island Climate Science Center |
| 37 | Fran Castro, Peter Houk | \$134,665.00 | CIS MARI | DOD/DON (CESU) | Coral Bleaching and Crown of Thorns (COTS) Monitoring on JRM Submerged lands |
| 38 | June De Leon | \$127,329.00 | CEDDERS | HHS | ACT ATSG |
| 39 | Tanisha Aflague (PI), Rachael Leon Guerrero (Co-PI) | \$124,968.00 | CNAS | USDA/NIFA-UH | CHL Center Children's Healthy Living 597,267 (9/1/21-8/3/26) 5YR |
| 40 | Rachael Leon Guerrero | \$111,903.00 | ORSP | HHS/NIH/ UH - COVID RADx-UP | COVID RX-UP |
| 41 | June De Leon | \$100,000.00 | CEDDERS | HHS/HRSA/ AMCHP | CARES ACT |
| 42 | June De Leon | \$100,000.00 | CEDDERS | HHS/DPHSS | Guam's Early Childhood Home Visiting Program: Project Bisita I Familia |

CHART 4
Grant Awards by College/Department
2021

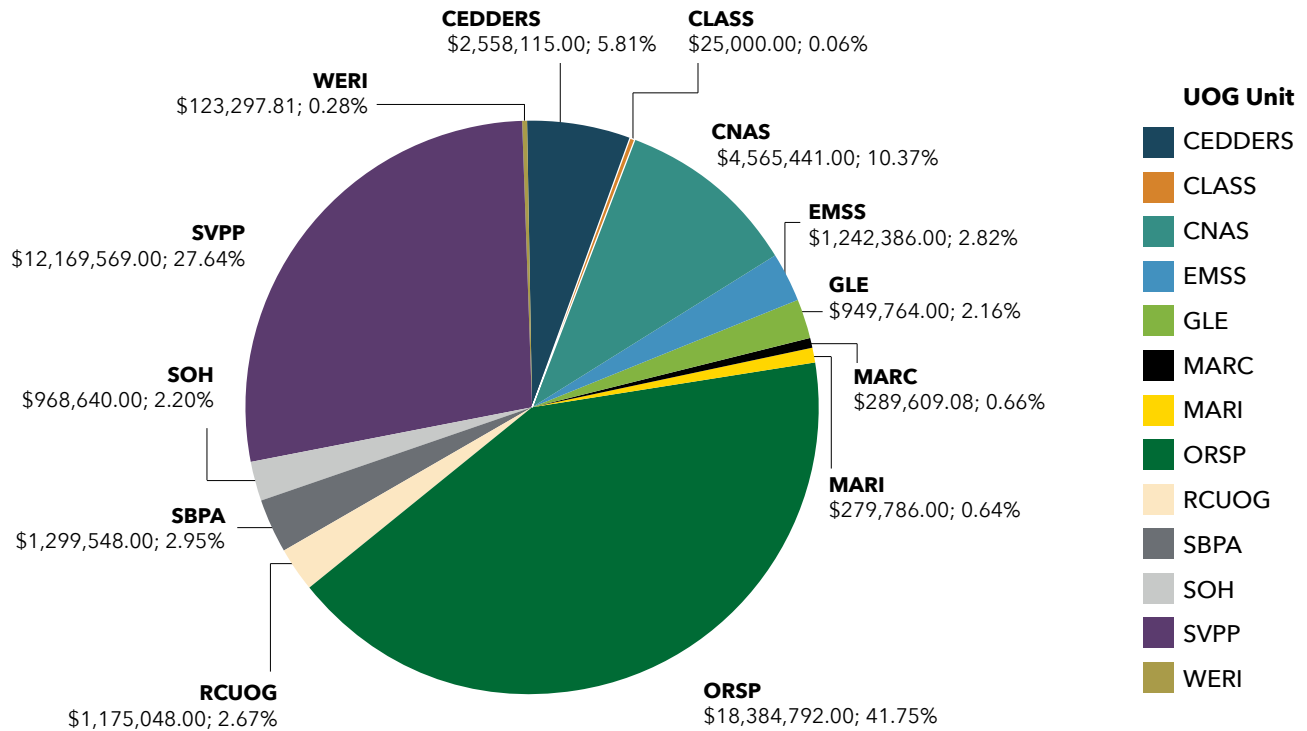


FIGURE 5
Grant Awards by College/Department
2021

| Row Labels | Sum of Grant Amount | Percentage |
|---|------------------------|----------------|
| Office of Research and Sponsored Programs (ORSP) | \$18,384,792.00 | 41.75% |
| Office of the Senior Vice President & Provost (SVPP) | \$12,169,569.00 | 27.64% |
| College of Natural & Applied Sciences (CNAS) | \$4,565,441.00 | 10.37% |
| Center for Excellence in Developmental Disabilities Education, Research & Service (CEDDERS) | \$2,558,115.00 | 5.81% |
| School of Business & Public Administration (SBPA) | \$1,299,548.00 | 2.95% |
| Enrollment Management & Student Success (EMSS) | \$1,242,386.00 | 2.82% |
| Research Corporation of the University of Guam (RCUOG) | \$1,175,048.00 | 2.67% |
| School of Health (SOH) | \$968,640.00 | 2.20% |
| Global Learning & Engagement (GLE) | \$949,764.00 | 2.16% |
| Micronesia Area Research Center (MARC) | \$289,609.08 | 0.66% |
| Marine Laboratory (MARI) | \$279,786.00 | 0.64% |
| Water & Environmental Research Institute (WERI) | \$123,297.81 | 0.28% |
| College of Liberal Arts & Social Sciences (CLASS) | \$25,000.00 | 0.06% |
| Grand Total | \$44,030,995.89 | 100.00% |

CHART 5
ORSP Awards by Sponsor
2021

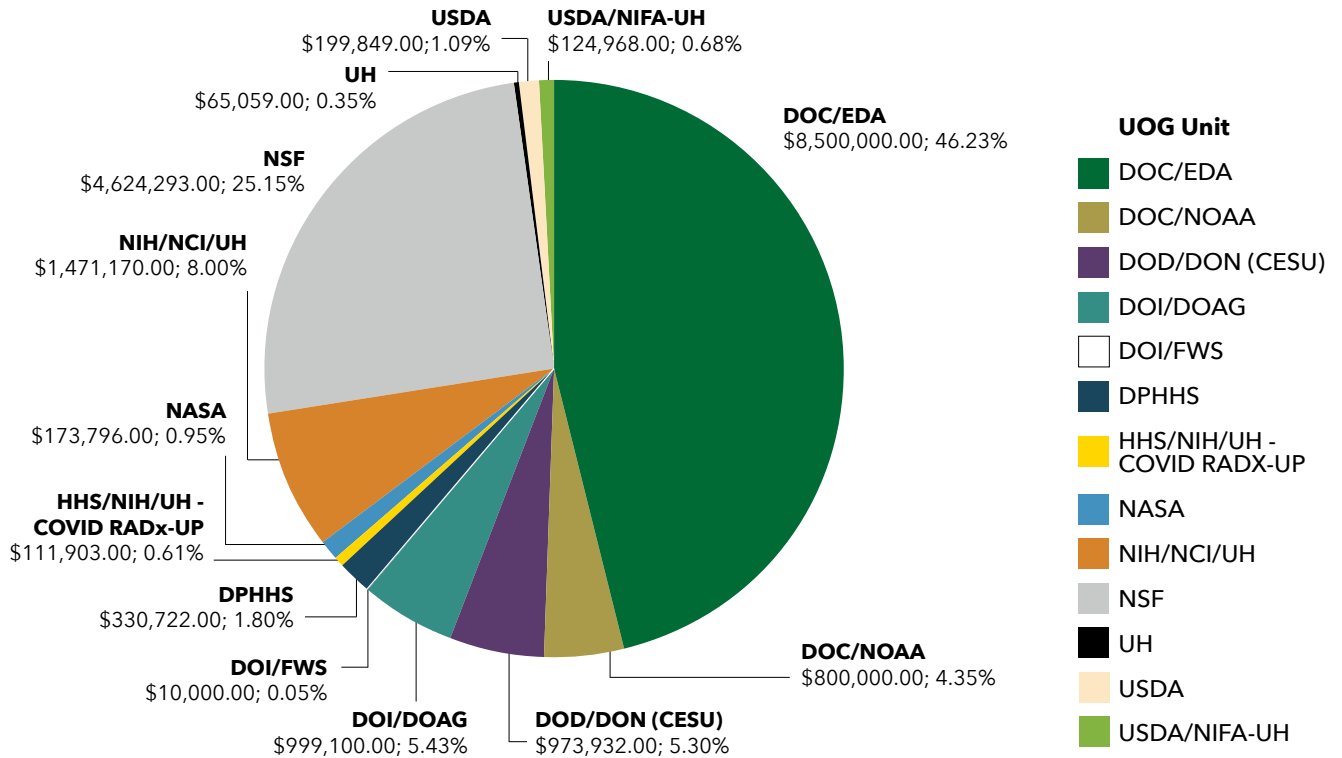


FIGURE 6
ORSP Awards by Sponsor
2021

| Sponsor and Project | Sum of Grant Amount | Percentage |
|---|------------------------|----------------|
| DOC/EDA WERI Building & Nursing Building Annex | \$8,500,000.00 | 46.23% |
| NSF EPSCoR GECCO | \$4,624,293.00 | 25.15% |
| NCI U54 PIPCHE Cancer Grant | \$1,471,170.00 | 8.00% |
| DOI/DOAG | \$999,100.00 | 5.43% |
| DOD/DON Cooperative Ecosystem Study Unit (CESU) Projects | \$973,932.00 | 5.30% |
| DOC/NOAA Sea Grant | \$800,000.00 | 4.35% |
| DPHHS Guam Cancer Registry | \$330,722.00 | 1.80% |
| USDA Sea Grant Ugum Restoration Project | \$199,849.00 | 1.09% |
| NASA EPSCoR RID (Research Infrastructure Development) | \$173,796.00 | 0.95% |
| USDA/NIFA-CHL Food System Project | \$124,968.00 | 0.68% |
| HHS/NIH/UH - COVID RADx-UP | \$111,903.00 | 0.61% |
| NIH/CDC RADX-Up COVID Grant | \$65,059.00 | 0.35% |
| DOI/FWS Atantano Reviving Historical and Biological Connections with the Land | \$10,000.00 | 0.05% |
| Grand Total | \$18,384,792.00 | 100.00% |

FIGURE 7
Grant Funding by Sponsor
2011 - 2021

| Sponsor | Number of Awards | Sum of Grant Amount |
|--------------------------|------------------|---------------------|
| AECOM Tech Svc | 2 | \$194,049.29 |
| American Cancer Society | 1 | \$14,088.00 |
| AmeriCorps | 4 | \$1,853,990.00 |
| AUAS/DAN | 1 | \$10,000.00 |
| BBMR | 2 | \$900,000.00 |
| Black Construction Corp | 1 | \$25,500.00 |
| BSP | 5 | \$667,413.00 |
| CHLA | 1 | \$30,000.00 |
| CIS | 1 | \$377,956.00 |
| CNMI PSS | 3 | \$897,480.00 |
| DOAG | 1 | \$242,726.00 |
| DOC | 1 | \$16,201.00 |
| DOC/EDA | 2 | \$8,690,000.00 |
| DOC/NOAA | 29 | \$5,526,050.00 |
| DOC/NOAA/BSP | 20 | \$2,446,590.68 |
| DOC/NOAA/CRCP | 1 | \$71,216.00 |
| DOC/NOAA/GVB | 1 | \$50,000.00 |
| DOC/NOAA/MCT | 5 | \$402,715.00 |
| DOC/NOAA/TNC | 1 | \$58,306.00 |
| DOC/NOAA/UH | 1 | \$140,000.00 |
| DOC/NOAA-BSP | 1 | \$50,000.00 |
| DOC/USCB/BSP | 2 | \$468,500.00 |
| DOD/DLA | 11 | \$3,450,391.00 |
| DOD/DON | 3 | \$1,249,652.97 |
| DOD/DON (CESU) | 44 | \$14,594,981.69 |
| DOD/DON/ONR | 2 | \$465,000.00 |
| DOD/GANG | 1 | \$23,865.00 |
| DOD/OEA | 1 | \$405,166.00 |
| DOD/USACE/ CESU (Alaska) | 1 | \$743,867.00 |
| DOE/GEO | 1 | \$460,762.00 |
| DOI | 18 | \$6,937,698.00 |
| DOI/BSP | 12 | \$671,160.00 |

| Sponsor | Number of Awards | Sum of Grant Amount |
|-----------------------------------|------------------|---------------------|
| DOI/COD | 2 | \$290,000.00 |
| DOI/DOAG | 4 | \$1,907,950.00 |
| DOI/FWS | 3 | \$89,982.00 |
| DOI/NPS | 11 | \$653,778.50 |
| DOI/OIA | 3 | \$453,681.00 |
| DOI/UH | 1 | \$72,000.00 |
| DOI/USGS | 130 | \$3,138,724.79 |
| DOI/USGS/BSP | 1 | \$38,000.00 |
| DOI/USGS/GWA | 1 | \$531,300.00 |
| DOI/USGS/RCUH | 1 | \$249,016.00 |
| DOI/USGS/UH | 9 | \$1,379,931.46 |
| DOJ | 1 | \$300,000.00 |
| DOJ/OVW | 1 | \$300,000.00 |
| DON | 1 | \$209,804.00 |
| DOS | 1 | \$19,740.00 |
| DPHHS | 11 | \$2,461,694.00 |
| DPHSS | 1 | \$123,915.00 |
| Duenas & Associate | 1 | \$65,018.00 |
| ED | 49 | \$39,646,718.00 |
| ED/GDOE | 34 | \$7,096,360.20 |
| ED/OCTAE/GCC | 1 | \$300,000.00 |
| ED/San Jose State University (PT) | 2 | \$151,000.00 |
| ED/UCORP | 1 | \$25,911.00 |
| ED/WestEd | 1 | \$55,000.00 |
| EPA | 4 | \$331,359.00 |
| FEMA/GHS/OCD | 1 | \$419,025.00 |
| FHCRC | 1 | \$8,000.00 |
| Ford Motor CompanyW | 1 | \$15,000.00 |
| FSM National DOE | 6 | \$567,045.37 |
| FWS | 3 | \$388,731.00 |
| GBHWC | 1 | \$19,382.00 |
| GDOE | 3 | \$391,461.40 |

| Sponsor | Number of Awards | Sum of Grant Amount |
|------------------------------------|------------------|---------------------|
| GEPA | 3 | \$183,996.00 |
| GG | 4 | \$808,804.00 |
| GovGuam | 2 | \$53,699.00 |
| Granite-Obayashi Construction (JV) | 2 | \$160,978.00 |
| GVB | 1 | \$5,000.00 |
| GWA | 2 | \$91,792.06 |
| Harvard | 1 | \$314.68 |
| HHS | 6 | \$1,325,760.00 |
| HHS/ACL | 21 | \$7,313,271.71 |
| HHS/ACL/UCEDD | 1 | \$59,701.00 |
| HHS/ACYF/FYSB | 2 | \$151,982.00 |
| HHS/BBMR | 1 | \$310,000.00 |
| HHS/CDC | 2 | \$41,909.00 |
| HHS/CDC/AMCHP | 3 | \$30,000.00 |
| HHS/CDC/AUCD | 1 | \$94,000.00 |
| HHS/CDC/UH | 2 | \$177,237.00 |
| HHS/DPHSS | 27 | \$3,701,103.40 |
| HHS/HRSA | 25 | \$8,412,619.48 |
| HHS/HRSA/AMCHP | 1 | \$100,000.00 |
| HHS/HRSA/BHW | 3 | \$2,254,026.00 |
| HHS/HRSA/EHDI | 9 | \$1,311,747.00 |
| HHS/MCH | 2 | \$126,336.25 |
| HHS/NIH | 6 | \$5,947,574.46 |
| HHS/NIH/NIMHD - U24 PICCAH | 5 | \$2,795,683.00 |
| HHS/NIH/UH - COVID RADx-UP | 2 | \$115,159.00 |
| HHS/UH | 3 | \$285,441.00 |
| HSS | 1 | \$243,440.00 |
| HSS/DPHSS | 4 | \$197,014.00 |
| IMLS | 1 | \$97,792.00 |
| IMLS/NLG-L | 1 | \$125,339.50 |
| KAHA | 8 | \$47,000.00 |
| MAA | 3 | \$15,400.00 |
| McRel Pacific | 1 | \$593,863.00 |
| MCT | 2 | \$100,556.06 |

| Sponsor | Number of Awards | Sum of Grant Amount |
|-----------------------------------|------------------|---------------------|
| Merrick & Company | 1 | \$186,480.00 |
| NARA/NHPRC | 1 | \$142,078.00 |
| NASA | 7 | \$1,596,771.89 |
| NASA/UH | 1 | \$249,999.25 |
| NFWF | 6 | \$1,189,041.32 |
| NIH/NCI/UH | 10 | \$7,525,154.00 |
| NIH/PSU | 15 | \$1,531,420.00 |
| NIH/URI | 1 | \$25,903.00 |
| NIH-Scripps Research Institute | 1 | \$29,279.00 |
| NMHC | 1 | \$5,000.00 |
| NOAA | 2 | \$134,136.00 |
| NOAA/BSP | 4 | \$112,948.00 |
| NOAA/NFWF | 1 | \$69,769.00 |
| NOAA/RCUH | 2 | \$114,822.00 |
| NPS | 1 | \$56,587.00 |
| NSF | 15 | \$17,863,336.00 |
| NSF/AU (PT) | 1 | \$39,000.00 |
| NSF/BCS | 1 | \$274,312.00 |
| NSF/MAA | 3 | \$86,374.00 |
| NSF/RIG | 1 | \$194,134.00 |
| NSF/UH | 6 | \$304,923.00 |
| NSF/UNH | 1 | \$43,446.00 |
| ORSP/GCTF | 1 | \$32,130.00 |
| PFM Inc | 1 | \$218,843.00 |
| PIHOA | 1 | \$24,570.00 |
| PW Ministry of Ed, Sp Ed | 10 | \$1,174,739.00 |
| RCUH | 1 | \$8,342.35 |
| SBA | 83 | \$9,654,234.00 |
| SCS | 1 | \$25,260.00 |
| Sundance | 2 | \$72,543.00 |
| Tides Center | 1 | \$4,000.00 |
| TNC | 1 | \$33,773.76 |
| UH | 7 | \$571,812.00 |
| UH Sea Grant | 1 | \$40,000.00 |
| University of Otago (New Zealand) | 1 | \$22,645.00 |

| Sponsor | Number of Awards | Sum of Grant Amount |
|----------------------|------------------|---------------------|
| UOG EF | 1 | \$45,000.00 |
| UPEI | 1 | \$7,518.00 |
| USDA | 29 | \$3,329,871.37 |
| USDA/AMS/BBMR/DOAG | 1 | \$203,840.63 |
| USDA/AMS/DOAG | 1 | \$210,938.97 |
| USDA/APHIS | 21 | \$1,467,012.00 |
| USDA/APHIS/DOAG (PT) | 1 | \$58,062.00 |
| USDA/APHIS/PPQ | 42 | \$1,574,233.00 |
| USDA/CSU | 1 | \$5,000.00 |
| USDA/CTSA | 1 | \$12,800.00 |
| USDA/DOAG | 7 | \$970,094.03 |
| USDA/DPHSS | 9 | \$1,391,056.00 |
| USDA/FS | 16 | \$1,809,110.74 |
| USDA/Idaho | 1 | \$30,000.00 |
| USDA/KSU | 6 | \$135,232.00 |
| USDA/LSR/GDOAG/FSRD | 3 | \$442,780.00 |
| USDA/MCT | 1 | \$62,000.00 |
| USDA/MSU | 1 | \$72,871.00 |
| USDA/NASS | 1 | \$25,000.00 |
| USDA/NIFA | 73 | \$31,369,816.00 |
| USDA/NIFA/MSU | 3 | \$401,536.00 |
| USDA/NIFA/UH | 2 | \$408,968.00 |
| USDA/NIFA/USU | 7 | \$284,263.70 |
| USDA/NMC | 1 | \$6,500.00 |
| USDA/NRCS | 2 | \$149,961.00 |
| USDA/OIA | 1 | \$63,816.00 |
| USDA/UCDavis | 3 | \$104,315.00 |
| USDA/UH | 7 | \$2,795,486.00 |
| USDA/UOPR | 2 | \$255,500.00 |
| USDA/UOVI | 2 | \$167,001.00 |
| USDA/UW | 6 | \$112,002.00 |
| USDA/WSU | 1 | \$44,999.00 |
| USFWS | 1 | \$12,000.00 |
| USGS | 2 | \$966,722.68 |
| USGS/UH | 1 | \$169,320.00 |

GRAND TOTAL

Number of Awards:
1080

Sum of Grant Amonut:
\$243,935,822.64

CHART 6

Number of Research and Scholarly Publications by College/Department 2020 - 2021

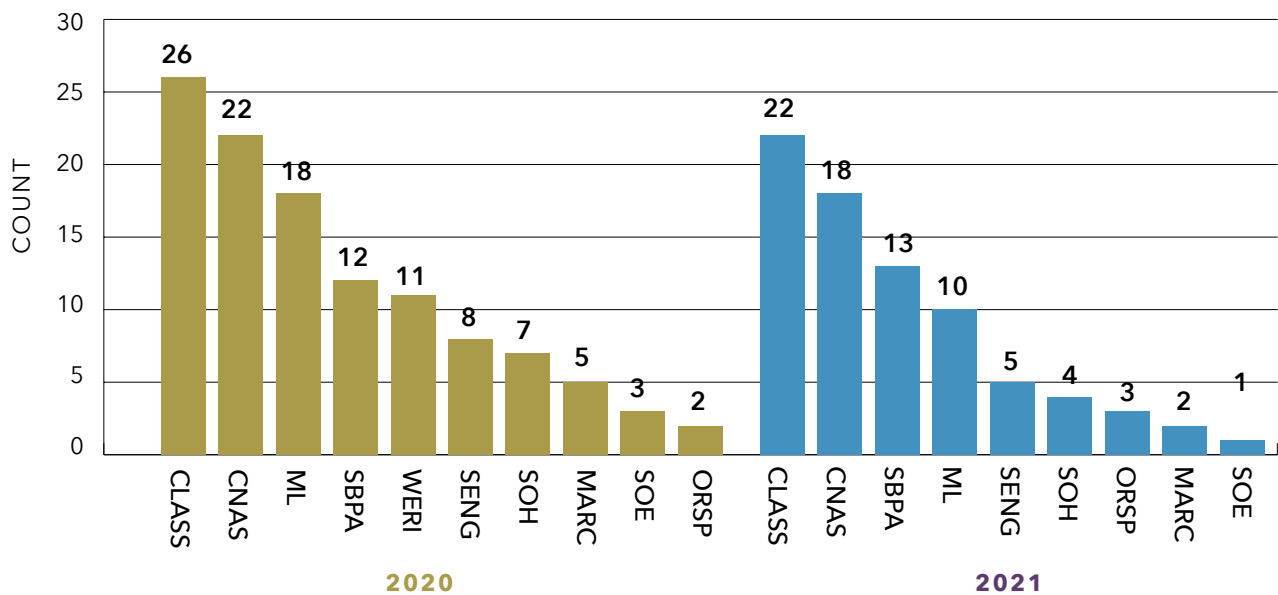


FIGURE 8

Number of Research and Scholarly Publications by College/Department 2020 - 2021

| 2020 | | 2021 | |
|---|--------------|---|--------------|
| Unit | Publications | Unit | Publications |
| College of Liberal Arts & Social Sciences (CLASS) | 26 | College of Liberal Arts & Social Sciences (CLASS) | 22 |
| College of Natural & Applied Sciences (CNAS) | 22 | College of Natural & Applied Sciences (CNAS) | 18 |
| Marine Laboratory (MARI) | 18 | School of Business & Public Administration (SBPA) | 13 |
| School of Business & Public Administration (SBPA) | 12 | Marine Laboratory (MARI) | 10 |
| Water & Environmental Research Institute (WERI) | 11 | School of Engineering (SENG) | 5 |
| School of Engineering (SENG) | 8 | School of Health (SOH) | 4 |
| School of Health (SOH) | 7 | Office of Research & Sponsored Program (ORSP) | 3 |
| Micronesia Area Research Center (MARC) | 5 | Micronesia Area Research Center (MARC) | 2 |
| School of Education (SOE) | 3 | School of Education (SOE) | 1 |
| Office of Research & Sponsored Program (ORSP) | 2 | Total | 78 |
| Total | 114 | | |

Research and Scholarly Publications

2021 - 2022

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List of IRB-Approved Projects

2021

FY2021 was a busy year for the UOG Committee on Human Research Subjects (CHRS/IRB). A total of 160 projects involving human subjects were submitted by UOG faculty, students, and other outside researchers. All projects were then reviewed and approved by the CHRS. The following is a comprehensive list of approved projects.

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|---------------------------------|--------------------------|
| A Millennial Girl in a Polarized World: An Analysis of Polarized behavior among Twitter users who interact with Cancel Culture and Stan accounts with Fandoms | Jasmin Marie Guerrero | Lilnabeth Somera |
| Heart but no Home Viewer Survey | Angelina-Marie C. Lape | Margaret Hattori-Uchima |
| #Fitspiration: a study on the parasocial relationships of Instagram fitness influencers and college students and how it affects their choice aimed at a healthier lifestyle | Kimberly Teves | Lilnabeth Somera |
| #VoteForMe: Local political candidates influence on young voters' political support using Twitter | Bradley Bartonico | Lilnabeth Somera |
| 2021 Guåhan Survey: Identify, Community, and Future | Ngoc T. Phan Kevin Lujan Lee | |
| A Critical Ethnography of <i>CHamoru</i> Women Reporting Intimate Partner Violence in Guam | Seahara T. Cruz | Rita Sharma |
| A mediation model of acculturation, enculturation, and mental health among Asian American/ Pacific Islander immigrants on Guam | Jean Margarete Santos | Yoshito Kawabata |
| A Study of University Student's Attachment Styles, Loneliness Level and Virtual Communication in Guam | Chi Man Santos (Suki) | Paul F.J. Fleming |
| Access to Online-Based Psychotherapy During SAR-CoV-2 (COVID-19) Pandemic Among Adults on Guam | Sabrina Zhi | Angeline Ames |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|---|--------------------------|
| Acculturation: Palauan Social Stigmas Towards Seeking Mental Health Services | Clint M. Ngemaes Jr. | Yoshito Kawabata |
| Aging and Disability Resource Center/No Wrong Door (NWD) Rapid Assessment of COVID-19 Pandemic Response | Michelle Aguigui Josephine Cruz Joseph Mendiola | |
| Agriculture on Guam: Challenges and Opportunities Ahead | Kuan-Ju Chen Jesse Bamba | |
| An Analysis of Seasonal Affective Disorder in Guam | Rochelle Alviz | Angeline Ames |
| An Evaluation of Community Supported Agriculture (CSA) Program in Guam: Perceived Barriers and Facilitators, Impact on Fruit and Vegetable Intake, and Feasibility in SNAP-Ed | Hope Evangelista | Tanisha Aflague |
| Analysis of the Social Vulnerability Index forum breakout session discussions | Yvette Paulino | |
| Assessing how Apprenticeships for <i>I Man Yo'amte Siha</i> (<i>CHamoru</i> Traditional Healers) can be done in a culturally responsive way | Tricia A. Lizama | |
| Assessment and Intervention of Struggling Readers & Writers | Catherine Stoicovy | |
| Authentic Experiences of <i>CHamoru</i> Students During the COVID-19 Pandemic | Perry J. C. Pangelinan | |
| Beginning Farmer & Rancher Needs Survey | Erica Pangelinan Rita Barcinas | |
| Belongingness and Authenticity Among College Students in the Pacific | Debra T. Cabreara | |
| Betel Nut Chewing and Liver Cancer Development in Guam | Yvette C. Paulino | |
| Brain Break Effectiveness on Student Achievement in an Elementary Classroom | Angelica Gabriel | Rowena Vega Castro |
| Bystander Theory: Promoting Communication Through an Awareness of the Bystander Theory in the Campaign to Deter Sexual Assault | Kirsten Dahilig | Lilnabeth Somera |
| Calculating the Social Vulnerability Index for Guam | Yvette C. Paulino | |
| Case Study: The Threat to <i>Litekyan</i> as a Driver for a Social Movement Towards the Protection of Biocultural Diversity and the Restoration of Land Sovereignty | Else Demeulenaere | Donald Rubinstein |
| Categorization of Semantically Different Stimuli | Paul F. J. Fleming | |
| CDC Registry for Bleeding Disorders Surveillance Project | Lee Meadows | |
| <i>CHamoru Yu'?</i> : Mixed Perspectives | Alea Dugan | Todd Ames |
| Children's Healthy Living Program (CHL Center) | Rachael T. Leon Guerrero | |
| Climate Change on Guam: The Effects Eco-Anxiety has on Residents | Jacky Chen | Angeline Ames |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|---|--------------------------|
| Cognitive Factors in Phoneme Representation | David Ruskin | |
| Cognitive Interviews with EFNEP Participant for Development of a Retrospective Pretest-Posttest Evaluation Survey | Qing Chen, | Tanisha Aflague |
| Colonial Mentality Effects on Mental Health in CHamoru Adults | Miranda Duenas | Yoshito Kawabata |
| Contributors of Hormonal Contraceptive Use Among Women | Stephenie Andriana G. Santos | Angeline Ames |
| Coping with COVID-19 pandemic: Mindfulness Practice Effects on Psychological Distress in College Students on Guam | Lianna Santos | Yoshito Kawabata |
| COVID-19 effects on the mental health of parents with young children | Aiesha Castro | Yoshito Kawabata |
| COVID-19 Impact on Guam Residents | Roseann M. Jones | |
| Cross-Sectional Analysis of Areca Alkaloids in Buccal Cells and Hair from Areca Nut as Candidate Biomarkers for Short- and Long-Term Areca Nut Exposure | Ana Joy Mendez | |
| Curricular Integration: Dementia Training for BSN program Pilot Pre/Post Test | Margaret Hattori-Uchima | |
| Cyanotoxins and Liver Cancer Development in Two High-Risk Populations | Laura Biggs Yvette Paulino | |
| Cyberbullying and Depression | Daniel Dimag | Yoshito Kawabata |
| DCP-001 (Partial Waiver of Authorization for Recruitment) | Samir Ambrale Sasha Madan | |
| Deconstructing Decolonization Through Conversations | Natasha L. Suba | Mary T. Cruz |
| Depressive Symptoms in Korean Americans in Guam | Hannah Y. Yi | Yoshito Kawabata |
| Developing a Validity Argument Case for Locally-Developed University English Placement Testing from an Ethical Perspective | Lynsey Lee | Bryna Siegel Finer |
| Developing CHamoru Language Infrastructure: <i>Goggue yan Chachalani Mo'na I Fina'ta</i> | Robert Underwood David Ruskin | |
| Diabetes knowledge, perceptions, and risk factors and their influence on lifestyle and dietary behaviors among college students in Guam | Britney Sison | Angeline Ames |
| Differences in Psychological Stigma and Help-Seeking Behavior between Asians and Pacific Islanders | Kycel Butters Bonnie Bowers Caroline Mann | Bonnie Bowers |
| Diving Deep or Surface Floating: A Study on Filipino College Students' Pseudo-Cultural Identity Formation and Its Relation to Their Social Media Engagement | Isaac P. Novilla | Lilnabeth Somera |
| Effectiveness of Game-Based Learning in a High School Elective Course | Denise Fhaye O. Carlos | Rowena Vega Castro |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|--|--------------------------|
| Effectiveness of Khan Academy as a Supplemental Instruction to Elementary Students | Victoria Ashley C. Cheng | Rowena Vega Castro |
| Effects of COVID-19 stress on UOG Students' Mental Health and Academic Motivation | Diana T. Patis | Yoshito Kawabata |
| Empowerment | Annette Espinosa | Tim Dela Cruz |
| EPIK in name only: A study of Korean students' experiences with the English Program in Korea | Brian Legaspi | Geraldine James |
| Estimating commercial fish catches through fish market surveys and interviews | Frank A. Camacho Peter Houk | |
| Examining Integrated Learning Activities in an OER Textbook | Tanisha Aflague | |
| Exploring Millennials' Perceptions of Government Communications in COVID-19 | Angela Mae Echon | Lilnabeth Somera |
| Factors Influencing Young Adults' Decisions to Pursue Agriculture as a Career on Guam | Rita Barcinas | Yoshito Kawabata |
| FEAST - Food Experiences for Agriculture Science Training | Lori Andersen | |
| Female Delinquency and the Different Kinds of Abuse: What do you Believe? | Yna Poquiz | Todd Ames |
| Flipped Classroom Learning in the Face-to-Face Pandemic Affected Classroom | Mica M. C. Perez | Rowena Vega Castro |
| Following the Hyperuricaemic Trail - Pilot Test in Guam | Frank A. Camacho | |
| Food Consumption by Young Children in Guam | Michelle Blas Laguana | |
| Food Sovereignty and Security on Guam | Simone Bollinger | Todd Ames |
| Gender roles and expectations in Chamorro Families in Modern Times | Flora Ann Asanoma | Angelina Ames |
| Geriatrics Workforce Enhancement Program | Margaret Hattori-Uchima | |
| Gratitude writing and effects on self-compassion | Leomar Torcelino | Yoshito Kawabata |
| Grit, psychological well-being, and academic performance for student veterans on Guam: A non-experimental study | Arwen Franquez | Mei Jang |
| Guam Area Health Education Center (Guam AHEC) | Margaret Hattori-Uchima | |
| Guam Consumers' Knowledge of and Attitude towards GMO foods and Labelling Practices | Andrea L. Blas Kuan-Ju Chen Anthony R. Delmond | |
| Guam COVID Alert App Survey | John Rivera Julian Zlatev | |
| Guam Families Coping During COVID-19: Community Health Needs Assessment of Vulnerable, High-Risk and Hard-to-Reach (H2R) Populations for COVID-19 and Other Infectious Diseases on Guam | Ann Pobutsky (DPHSS) Grazyna Badowski (UOG) Ana Joy Mendez (UOG) | |
| Guam fish flow: the importance of subsistence fisheries to society and culture | Leilani Sablan | Peter Houk |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|--|---|--------------------------|
| Guam Homeless Coalition "Heart But No Home" Viewer Survey | Angelina Lape Margaret Hattori-Uchima | |
| Guam Homeless Coalition Unsheltered Outreach | Samantha Taitano April Trinidad | |
| Guam Invasive Species Perception Survey | Glenn Dulla Erica Pangelinan Jane Dia | |
| Guam National Health Interview Survey | Yvette C. Paulino | |
| How Personality Influences the Attachment Style of a Close Relationship | Milagros King | Yoshito Kawabata |
| <i>I Lina'la-Hu (MyLife)</i> | Melissa A. Rhea | |
| Improving the Drop Out Rate at John F. Kennedy High School | Germaine Maduro | Drew Van Dam |
| Influence of Social Media Use on Discrimination | Anissa Danica Dela Rosa | Yoshito Kawabata |
| Integration of Technology in the Teaching of English as a Second Language | Sabu Kallingal | Kevin Freer |
| Investigation of geminate productions in <i>CHamoru</i> | Thomas John Mendiola Santos | David Ruskin |
| Juvenile Delinquency and Punishment | Nicole Marin | Todd Ames |
| <i>Malak Na Haani</i> (Bright Futures) | Melissa A. Rhea | |
| <i>Maolek Na Lina'la</i> (Life is Good) | Melissa A. Rhea | |
| Mask On, Mask Off | Kayla Allyn Eata | Lilnabeth Somera |
| Mental and Socio Emotional Health of School Administrators and how it Affects their Role as School Leaders | Mark Ganeb | Geraldine James |
| Mentoring experiences of women leaders in Pacific Island community colleges | Christine B. Sison | Cynthia Howell |
| Metabolic risk factors associated with areca nut usage in Guam | Darlene P. Ferrer | Yvette C. Paulino |
| Middle School Teachers' Perceptions on Ability Grouping on Guam | Camalin Perez | Geraldine James |
| NIH BUILD | Margaret Hattori-Uchima | |
| No More Evictions: The effect of a pandemic on Guam's Housing Market | Angelo Paule | Maria Claret Ruane |
| NSF INCLUDES SEAS: Islands Alliance | Austin Shelton Cheryl Sanguenza Else Demeulenaere | |
| NSF Seas Alliance Overall IRB with WestEd and other partners | Else Demeulenaere Cheryl Sanguenza Austin Shelton | |
| One to one instructional aides perceptions of their working relationships with teacher supervisors: A case study in one Guam high school | Rosalina San Nicolas | Geraldine James |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|--|--------------------------|
| Pacific Island Cohort of Cardiometabolic Health (PICCAH) | Margaret Hattori-Uchima Rachael Leon Guerrero | |
| Pacific Island Cohort of College Students | Yvette C. Paulino | |
| PEACE Partnerships for Success - Needs Assessments (Adults) | KristiAnna Whitman | |
| PEACE Partnerships for Success - Needs Assessments (Youth) | KristiAnna Whitman | |
| Perceptions and attitudes towards risk in outdoor activities | Dirk HR Spennemann | |
| Perceptions of Guam Department of Education Teachers Concerning Remote Learning During Unplanned School Closure | Rowena Vega Castro Jackysha Green | |
| Perceptions of Wildfire and Wildfire Management on Guam | Farron Taijeron | Angeline Ames |
| Physiology of the Marianas Free divers | Michael Orr Megan Gimmen Ezra Cervera | |
| Political Appointees in the Government of Guam: Implications of the Cultural, Socio-political, and Administrative Realms | Adrian E. Davis | Gena A Rojas |
| Positive Effects of Quarantine | Anesha-Maelene Ignacio | Angeline Ames |
| Prevalence of Food Insecurity in the US Affiliated Pacific Region | Tanisha Aflague L. Bob Barber Mark Acosta | |
| Project <i>Isa-Ta</i> : PREP PATHways | Melissa Rhea | |
| Promoting Social Competence and Resiliency to Resist Substance Use Among Guam's Youth, Study 1: Focus Groups and Key-Informant Interviews | Francis Dalisay, Yoshito Kawabata | |
| <i>Puipua le Ola</i> : Increasing reach and uptake of COVID-19 testing among Pacific Islanders in Hawaii and Guam | Rachael T. Leon Guerrero | |
| Refining the Cessation Approach in the Betel Nut Intervention Trial (BENIT) | Gena A. Rojas Yvette Paulino | |
| Relational Victimization, Depression, and Academic Motivation | Herbert Tom | Yoshito Kawabata |
| Self-Harm Narratives of Adolescents in Guam | Mayumi Krause | Sharleen Santos-Bamba |
| Senior (<i>manamko</i>) to Senior (high school/college student) Intergenerational Exchange Video Interview Project | Timmy de La Cruz Kristina Sayama | |
| Stress, Traumatic Experiences, and Coping Among Law Enforcement Officers in the Pacific Island of Guam | Amber Henricksen | Rita Sharma |
| Student Experiences During COVID-19 pandemic | Mary Jane Miller | |
| Study on student engagement and enhance learning by having students use online resources and videos compared to using hands-on activities | Ruben Navarrete | Mary Jane Miller |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|-------------------------------------|---------------------------------|
| Suicide on Guam: The association between gender, age, ethnicity and suicide method | Gabriel Borg | Yoshito Kawabata |
| Survey of student perceptions of online learning in CNAS courses | Frank A. Camacho and Maika Vuki | |
| Survival Analysis of BRISK Participants | Rachael T. Leon Guerrero | |
| Teachers At-Risk: A Case for Good Mental Health as an Essential Factor in Teacher Effectiveness | James M. Rayphand | Troy McVey |
| Teachers' Perceptions on Remote Learning in Response to Unplanned School Closure in School K-12 Setting | Rowena Vega Castro & Jackysha Green | |
| The 21st Century K-pop Stan: The Influence of Parasocial Relationships on Kpop Fans' Purchase Behaviors | Marilea Torcelino | Lilnabeth Somera |
| The assessment of carbonyl compound in e-cigarettes and the potential effects on human health | Mackenzie Shae Urbano | Maika Vuki |
| The Association Between Body Dissatisfaction | Christian Sourgose | Yoshito Kawabata |
| The association between Online Classes and Mental Health | Johanna Alexis Rengiil | Yoshito Kawabata |
| The Associations Between Stress, Physical Activity, & Health During COVID-19 | Eries Jay D. Moreno | Yoshito Kawabata |
| The Betel Nut Intervention Trial (BENIT) | Yvette C. Paulino | |
| The Correlation Between Attachment Insecurity and Symptoms of Depression | Aleah Carino | Yoshito Kawabata |
| The Correlation Between Music Listening and Stress and Anxiety | Paulani Untalan | Yoshito Kawabata |
| The Correlation between Social Media Engagement and Anxiety and Depression | Zoe Surber | Yoshito Kawabata |
| The Departure of Knowledge: Brain Drain in Guam | Melissa Quintanilla Teachnor | Debra T. Cabrera |
| The Effectiveness of Assignment Slips as Reminders for Homework Submission in Middle School Reading | Jessica Laurora Manalo | Rowena Vega Castro |
| The Effectiveness of Game-Based Learning in Middle School Math | Nathaniel Macaraeg | Rowena Vega Castro |
| The Effectiveness of Pre-recorded Video Lessons on a Middle School Online Language Arts Class | Angelica D. Dela Cruz | Rowena Vega Castro |
| The Effects of Bell Ringers on Student Vocabulary Achievement and Acquisition | Magdalena Lunod | Mary Jane Miller |
| The Effects of Immediate Feedback On ELL's Reading Assessments in ESL Classrooms in Pohnpei | Beverly Ilemangilish | Zenaida Natividad |
| The Effects of Peer Feedback on Students' Academic Success | Joshua JC Reyes | Rowena Vega Castro |
| The Effects of Quizzizz on Student Achievement in an Online Math Classroom | Jayson O. Morales | Mary Jane Miller |

| PROJECT TITLE | PRIMARY RESEARCHER (PI) | FACULTY ADVISOR (IF ANY) |
|---|--|--------------------------|
| The Impact of English Proficiency to Safe Medication Among English as Second Language Patients in Guam | Aisleabesh Maglaque | Angeline Ames |
| The Impact of Spaced Repetition on Student Academic Performance in a High School Science Classroom | Meghan Borja | Rowena Vega Castro |
| The Impact of Stress on Intrinsic Motivation and Work Performance | Riza Sejalbo | Yoshito Kawabata |
| The Impact of the COVID-19 Pandemic on the Well-being of Frontline Healthcare Personnel: A Descriptive Phenomenological Study | Natalia Faculo | Wes Rangel |
| The Influence of Religiosity/Spirituality on Factors of Positive Psychology | Elena Kedziora | Yoshito Kawabata |
| The Positive effects of online learning | Flora Ann Asanoma | Angeline Ames |
| The Presence of LGBTQ+ themes and attitudes in Children's animated television. A content analysis of modern children's cartoons. | Lauren Garcia | Lilnabeth Somera |
| The Relationship between Teacher Efficacy and ESL Student Performance | Cassandra R. Sachdev | Geraldine James |
| The Stigmatization of Mental Health Problems Among Filipino Americans in Guam | Frezza C. Edubalad | Yoshito Kawabata |
| The Sustainability of the two-party system on Guam | Joaquin P. Taitague | Mary Cruz |
| The transgender community: The Deception of the Binary Gender System | Angelina De Leon | Angeline Ames |
| To binge or not to binge: College students motivators for binge watching | Ingrid Toyama | Lilnabeth Somera |
| Traditional And New Lifestyle Interventions for Breast Cancer Prevention (TANICA) | Tanisha Aflague (UOG) Monica Esquivel (UHM) | |
| Tunes in the Classroom: The Relationship between Background Music in the Classroom and Student Performance and Behavior | Marie Lourdes Ibardolasa | Rowena Vega Castro |
| Understanding Landowner Perspectives on Guam's Mangroves | Cara Lin Whitney Hoot Marie Auyong | |
| UOG Ombuds Survey | Jim Hollyer | |
| Video Games and Cognitive Functions | Jerald Joson | Yoshito Kawabata |
| WestCare Pacific Islands Coalition for Drug-Free Dededo (CDFC) DFC | Melissa Rhea | |
| Western Regional Agricultural Stress Assistance Program (WRASAP) | Kuan-Ju Chen | |
| Writer's Stories about Editing: Cross-cultural Considerations in the Editing of the English Language Work of Translingual Writers in Guam | Carol D. Simpson-Warner | Sarah Stanley |
| Youth go Local (YoLo): A study to promote local fruits & vegetables to improve diet quality and prevent disease among teens in Guam | Sophia Torcelino | Tanisha Aflague |



Office of Research and Sponsored Programs

303 University Drive
Dean's Circle #7
Mangilao, Guam 96913-1800

671.735.2989
orsp@triton.uog.edu
www.uog.edu/research