

FY 2020 Sponsored Research
and Creative Activities
Annual Report



DEPAUL UNIVERSITY

Office of Research Services

OVERVIEW

One hallmark of a thriving academic institution is the vitality of its research culture. Over the last seven years, DePaul University has received over \$82M in sponsored project funding. In fiscal year (FY) 2020 DePaul University had 369 submissions requesting a total funding of \$75.4 million in funding; 125 submissions were funded totaling \$11.7 million in new and continuation grants (Figure 1).

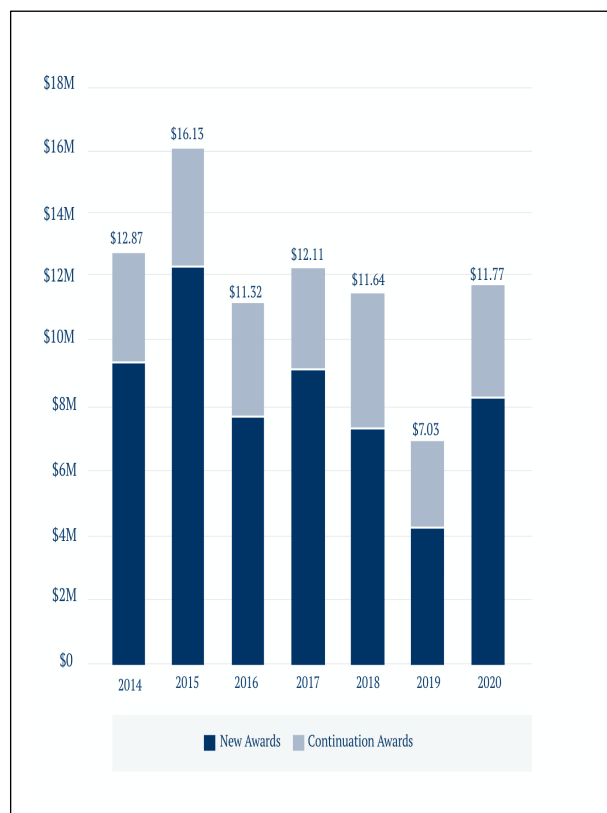


Figure 1: Sponsored Project Funding FY 2014-20

A research culture is not measured, however, solely by the quantitative metric of grants awarded, or revenues generated; rather, it is typified by the pervasiveness of new ideas, the stimulation of dialogue, and the commitment to advancing knowledge. DePaul's commitment to this standard is, this year, perhaps best typified by three CSH faculty Dr. David Jabon, Dr. Leonard Jason, and Dr. W. LaVome Robinson, who each received sizeable federal awards for their research and education activities; Jabon from the National Science Foundation, and Jason

and Robinson from the National Institutes of Health.

Dr. David Jabon's National Science Foundation award, *Building a Teacher Knowledge Base for The Implementation of High-quality Instructional Resources*, totals \$617,710 over a four-year project period. With this funding, Jabon and his project team will address the pressing national need to generate shared, practice-based knowledge about how to best implement freely available, high-quality mathematics instructional resource lessons. These lessons have the potential to produce significant gains in student learning outcomes when effectively utilized.

With a \$2.8M five-year grant from the National Institutes of Health, entitled *Maintenance and Incidence of ME/CFS following Mono*, Dr. Leonard Jason's team will explore the pathophysiological underpinnings of the development of myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS). This longitudinal study will assess both clinical and biological maintenance factors of ME/CFS, and determine prospectively the incidence of ME/CFS in a sample of young adults. Assessments of the psychological, autonomic and biological risk factors for the development of ME/CFS, as part of this study, may contribute to our understanding of underlying mechanisms of the disease.

Dr. Robinson's award, *Preventing Suicide in African American Adolescents*, the largest grant award in DePaul's history, totals \$6.6M for a project period just under five years. The project will test the effectiveness of a culturally-adapted, school-based suicide prevention intervention, for low-resourced, urban, African American 9th grade students. Rates of suicide among African American youth have increased substantially in the past 20 years, and suicide is currently one of the leading causes of death among African American adolescents. This study has broad public health implications and informs procedures for scaling up efficacious, high-quality, and culturally-grounded suicide prevention programs and best practices for the prevention of suicide among African American adolescents.

Substantive efforts have been made to enhance the research culture and infrastructure at the University this year through internal funding, training initiatives and programming. Innovative research,—creative activities and teaching excellence require resources and support. DePaul fosters such support through a comprehensive offering of internal grant programs for faculty members in all stages of their careers, and across all disciplinary interests. Several initiatives have been spearheaded in FY 2020 by the ORS Office:

- Seed funding for innovative and promising research, creative, and scholarly activities was made available to faculty in FY 2020 through the University Councils. The Councils' awarded intramural grants totaling \$439,360 this fiscal year. Awarded through a competitive application and peer-review process, over 90 faculty in ten colleges received support for their respective projects.
- Institutional support of the University's Undergraduate Research Assistant Program, which offers students a unique opportunity to enrich their education by working with a faculty member on the planning and implementation of a research project through block grants to academic units provided 146 units of student support, totaling \$153,300 in FY 2020.
- The Academic Growth and Innovation Fund (AGIF) directly supported 19 projects in FY 2020 with awards totaling over \$856K. Thirteen of the funded projects proposed innovative academic ideas designed to increase institutional revenue; the other six awards were adapted to fund proposals submitted in response to DePaul's Request for Applications to conduct preliminary research that contributes to our understanding of the science of COVID-19, or approaches to mitigate the health equity/social justice dimensions of the virus. This preliminary research may prove critical to securing external funding, as more agencies adapt grant initiatives to target pandemic-related issues.
- To better articulate internal grant program offerings and conditions, the guidelines for all programs managed by the three Councils were reviewed, updated and approved by each Councils' membership in FY 2020. The updated guidelines which include revised

program descriptions and proposal review criteria for the six programs under the Quality of Instruction Council, ten programs under the University Research Council, and five programs under the Public Service Council are slated for implementation in fall 2020. Similarly, the AGIF program description was updated this year to incorporate lessons learned from the programs' initial grant cycle.

A significant investment was made in outreach to and training of investigators in FY 2020:

- In collaboration with the Deans' Offices of the College of Science and Health (CSH) and the College of Computing and Digital Media (CDM), Academic Affairs, the Office of Research Services launched the second phase of the GWSW *Write Winning Grant Proposals* workshop. The Phase II program places emphasis on concepts such as idea development and strategies to target grant narrative to catch and hold the interest of grant reviewers. Throughout this summer, 11 faculty participants (6 CDM and 5 CSH) worked with GWSW and ORS through virtual group and one-on-one sessions to critique and further develop preproposals to frame their research plan and project descriptions for future NIH or NSF grant proposals. The ultimate goal of this initiative is to increase faculty capacity to compete successfully for federal grants from these agencies.
- Additional outreach and training was made available to faculty and staff through fall 2019 and spring 2020, training sessions focused on various aspects of ORS processes. Sessions ranged from topics such as the Paid Leave Program, Locating Grant Funding and Budget Essentials to Fiscal Year Closeout of Sponsored Projects, and online training on the Institutional Review Board Protocol Submission Process. Over 120 faculty, staff and students attended these trainings in person or virtually. An additional six faculty completed on-line Federal or Non-Federal Grants Management Training.
- ORS designed a webpage to keep the University Community apprised of both extramural funding related to COVID-19, including changes to existing grant deadlines, as well as DePaul and funding agency guidance on operating practices that

impact currently funded grants during the COVID-19 pandemic.

We also celebrated the success of our research and creative activities with targeted programming designed to recognize academic excellence and innovation. In FY 2020 these activities included:

- A panel discussion for new faculty on **Support for Research at DePaul**. This faculty panel familiarized new faculty with the type of research funded at DePaul while facilitating discussions on the teacher-scholar model and resources to support research and creative activities. Two panelists, a NSF CAREER recipient and an Andrew W. Mellon Foundation recipient, shared their experiences with the new faculty as an orientation to sponsored activities at DePaul. This activity complemented other faculty orientation activities that included presentations by Office of Research Services, PreAward, Award Management, and Research Protections staff.
- Faculty who received external grants totaling more than \$100K in FY2019 were invited to discuss their research agenda and ideas for better support, promotion, and growth of academic excellence at DePaul in a **Meet & Greet Luncheon** in September 2019. The event cultivated a year-long dialogue between and among the eleven faculty

participants, ORS and University leadership on topics related to the support and enhancement of the research infrastructure at the University.

- DePaul's inaugural **Innovation Day**, hosted in January 2020, provided over 100 DePaul faculty and staff the opportunity to glean information about sixteen AGIF projects funded by DePaul in FY 2019. The program also included an interactive "Ask the Expert" session during lunch, a discussion with deans on innovation within their colleges, and a closing panel that inspired participants to pursue their own innovations.

Finally, efforts to develop and customize the recently acquired eProtocol software system that will provide a future paperless submission system for IRB, IBC, and IACUC protocols came to fruition this year. The first module (IBC) was deployed January 1, 2020, a second module (IRB) was deployed June 1, 2020, and the third module (IACUC) is expected to be made available to DePaul researchers in fall 2020.

A culture of research cannot be imposed or mandated administratively; it emanates from the collective commitment and accomplishments of the entire community. We are delighted to present the *FY 2020 Sponsored Research and Creative Activities Annual Report* which reflects another year of commitment and accomplishment of our faculty and staff.

TABLE OF CONTENTS

I. EXTRAMURAL SUBMISSIONS.....	1
SUBMISSION TRENDS.....	1
SUBMISSIONS BY PURPOSE.....	2
PRIVATE <i>vs.</i> PUBLIC SUBMISSIONS.....	2
SUBMISSIONS BY UNIT	3
SUBMISSIONS BY SOURCE OF SUPPORT	3
II. EXTRAMURAL AWARDS.....	7
FEATURED AWARDS	7
AWARD TRENDS.....	11
AWARDS BY PURPOSE	11
AWARDS BY SOURCE.....	11
AWARDS BY UNIT	12
AWARDS BY SOURCE OF SUPPORT.....	13
INDIVIDUAL AWARD LISTINGS.....	15
III. INTRAMURAL SUBMISSIONS AND AWARDS	20
SUMMARY	20
COUNCIL SUPPORT	21
AGIF SUPPORT	22
URAP SUPPORT	22
INDIVIDUAL AWARD LISTINGS.....	23
IV. RESEARCH PROTECTIONS.....	27
SUMMARY	27
INSTITUTIONAL REVIEW BOARD	27
INSTITUTIONAL BIOSAFETY COMMITTEE.....	27
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE.....	27
RESEARCH PROTECTIONS SUBMISSIONS BY UNIT.....	28
V. STAFF AND COMMITTEES	29
ASSOCIATE PROVOST FOR RESEARCH.....	29
OFFICE OF RESEARCH SERVICES.....	29
COUNCILS AND COMMITTEES.....	29

I. EXTRAMURAL SUBMISSIONS

The Extramural Submissions section summarizes the activities of the Pre-Award Services unit of ORS. The Pre-Award staff assists faculty and staff with identifying funding sources, preparing and submitting proposals, requests for data agreements, material transfer and nondisclosure agreements, and/or other information as may be necessary to secure project funding and/or liaise with extramural funding agencies. For foundation and corporate submissions these activities are done in concert with DePaul's Advancement Office. The number of submissions and the level of funding requested within those submissions are the metrics used to understand Pre-Award Services' level of activity. Therefore, these two metrics are incorporated into the various figures and tables that are used to report on pre-award activities within Section I.

SUBMISSION TRENDS

In fiscal year (FY) 2020, ORS' PreAward Services unit supported 369 submissions requesting \$75,441,140 to 146 distinct funding agencies. Trends in sponsored program submission activity for the 2014 to 2019 FY period are detailed in Table 1.1 and illustrated in Figure 1.1. Though the number of FY 2020 submissions diminished slightly over FY 2019 levels (2.1%), submission rates have leveled in the 330 to 380 range per year, consistent with institutional performance in five of the past seven fiscal years. More significant, is the FY 2020 decrease in funds requested. FY 2020 funds requested totaled \$75.4M, down from the University's record high request rate of \$94.9M in FY 2019. Contributing to this decline are fewer federal submissions by select DePaul researchers who received sizeable, multi-year federal awards this fiscal year.

Table 1.1: Submission/Funds Requested, FY 2014-2020

Year	# Submissions	\$ Requested
FY 2014	332	\$71,484,086
FY 2015	378	\$64,162,873
FY 2016	368	\$79,003,637
FY 2017	424	\$94,414,498
FY 2018	418	\$93,658,899
FY 2019	377	\$94,901,213
FY 2020	369	\$75,441,140

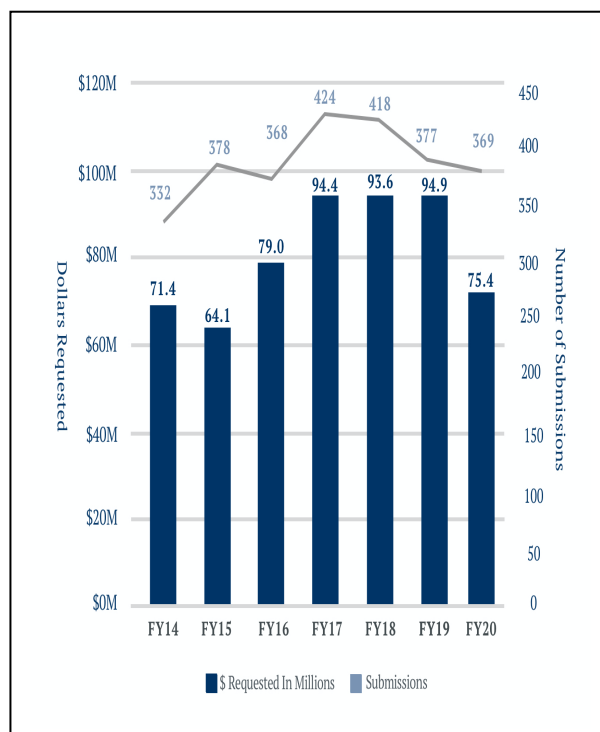


Figure 1.1: Submissions/Funds Requested, FY 2014-2020

FY 2020 submissions represent an 11.1% increase over FY 2014 submission levels, while funds requested in FY 2020 represent a 5.5% increase as compared to FY 2014 requested values.

It is important to note, for any given FY, there is not necessarily a direct relationship between the number of submissions and the number of awards received. An action on a proposal submission in one FY may not occur until a subsequent FY. For example, submissions to federal agencies typically require a six- to nine-month review period; hence, submissions for the last half of the FY 2020 may not generate awards until the FY 2021.

Noteworthy too, because the scope of this report is limited to extramural and intramural grant activities, it does not report on the many important projects undertaken by our faculty without grant support.

SUBMISSIONS BY PURPOSE

FY 2020 submission activity, classified by proposed purpose, is detailed in Table 1.2. Consistent with DePaul's performance in prior fiscal years, submission activity is principally for external support of faculty/staff research activities.

PRIVATE vs. PUBLIC SUBMISSIONS

In FY 2020, 51% of submissions on behalf of the University were to public funding sources including federal, state and municipal agencies; while 49% of submissions were to private organizations including associations, professional societies, research institutes, foundations and corporations. Table 1.3 details submission counts by funding source as well as total funds requested of both public and private agencies. Though figures to public and private sources by count are comparable, the existing data are of interest in that they emphasize that faculty are diversifying the type of agency from which they seek support.

Table 1.2: FY 2020 Submissions/ Funds Requested by Purpose

Purpose	Count	%	\$ Requested	%
Research	245	66.40%	\$64,054,011	84.91%
Community Service	29	7.86%	\$5,421,732	7.19%
Conferences	7	1.90%	\$75,553	0.10%
Other	88	23.85%	\$5,889,844	7.81%
Total	369	100%	\$75,441,140	100%

The smaller dollar value of funds requested from private sources is perhaps indicative that private funding is sought for short-term, selective program needs that inject significant resources into the University for limited periods of time, whereas public funding tends to be sought for initiatives requiring long-term, larger scale financial commitments.

Table 1.3: FY 2020 Submissions/Funds Requested by Type

Type	Count	%	\$ Requested	%
Public	188	51%	\$51,106,231	68%
Private	181	49%	\$24,334,909	32%

A full listing of the public and private agencies from which DePaul sought funding for sponsored projects in FY 2020 is detailed in the Submissions by Source of Support section that follows. Submissions to two agencies, the National Science Foundation and the National Institutes of Health account for 54.7% of all DePaul funds requested and 84.4% of federal dollars requested. Interestingly, in FY 2020, funds solicited from the National Science Foundation, totaling \$30.1M exceeded those requested of the National Institutes of Health, \$11.25M; reversing past year's performance in which NIH dollars exceeded those requested of all other agencies.

Table 1.4: FY 2020 Submission Count and Funds Requested by Unit

Unit	Count	%	\$ Requested	%
College of Business	37	10.03%	\$7,289,775	9.66%
College of Communication	5	1.36%	\$129,841	0.17%
College of Computing & Digital Media	57	15.45%	\$21,626,803	28.67%
College of Education	46	12.47%	\$3,809,127	5.05%
College of Law	10	2.71%	\$633,910	0.84%
College of Liberal Arts & Social Sciences	49	13.28%	\$10,311,253	13.67%
College of Science & Health	114	30.89%	\$29,123,892	38.60%
School for Continuing & Professional Studies	11	2.98%	\$38,097	0.05%
School of Music	1	0.27%	\$4,333	0.1%
The Theatre School	11	2.98%	\$29,883	0.04%
Administrative Units	28	7.59%	\$2,444,226	3.24%
TOTAL	369	100%	\$75,441,140	100%

SUBMISSIONS BY UNIT

Table 1.4 details FY 2020 submission data by Unit.

While all colleges and many administrative units had submissions in FY 2020, submission activity was concentrated in two colleges, the College of Science and Health (CSH) and the College of Computing and Digital Media (CDM) which collectively account for 46.34% of DePaul's 2020 submissions, and 67.27% of the funds solicited by the University this fiscal year. Though not visible in Table 1.4, noteworthy, is a precipitous decrease in the number of submissions generated by CSH faculty in fiscal year FY 2020 as compared to FY 2019. Submission levels in FY 2020 totaled 114, a decrease of 17.4% over the submission level of 138

in FY 2019. The accompanying decline in solicited funds, totaled 54.5%, with FY 2020 solicitations totaling \$29,123,982 as compared to \$63,879,091 in FY 2019. This change, was in part, an artifact of some of CSH's more prolific researchers receiving funding early in FY 2020 and pursuing limited or no submissions for the balance of the fiscal year. By comparison, the quantity of CDM submissions decreased 18.5% between fiscal years 2019 and 2020, though CDM FY 2020 solicited funds increased 110.4% over FY 2019 levels. The College of Liberal Arts and Social Sciences, the College of Education and the College of Business each increased both the number and dollar level of submissions in FY 2020 as compared to FY 2019 levels.

SUBMISSIONS BY SOURCE OF SUPPORT

	AGENCY	AMOUNT	NUMBER
Federal Agencies	Illinois Space Grant Consortium Office (NASA)	\$195,114	5
	Jumpstart for Young Children, Inc.	\$75,685	1
	Library of Congress	\$89,035	1
	National Aeronautics and Space Administration	\$446,058	2
	National Endowment for the Humanities	\$ 1,259,308	9
	National Institute of Justice	\$623,518	2
	National Institute of Standards and Technology	\$134,752	1
	National Institutes of Health	\$ 11,171,678	23
	National Science Foundation	\$ 30,094,925	45
	Patient-Centered Outcomes Research Institute	\$ 607,865	2
	Substance Abuse and Mental Health Services Adm.	\$ 46,716	1
	U.S. Department of Defense	\$ 5,721	1
	U.S. Department of Education	\$ 2,052,269	7
	U.S. Department of Energy	\$1,711,318	2
	U.S. Department of Health & Human Services	\$364,822	2
	Subtotal	\$48,878,784	104
Municipal Agencies	Chicago Board of Education	\$510,059	60
	Chicago Department of Public Health	\$0	1
	Chicago Housing Authority	\$186,094	5
	Chicago Transit Authority	\$195,811	2
	City of Chicago	\$37,000	1
	Community Mental Health Board of Oak Park Township	\$189,960	2
	Cook County Justice Advisory Council	\$75,000	1
	Subtotal	\$1,193,924	72
State Agencies	Chicago Metropolitan Agency for Planning	\$0	1
	Illinois Board of Higher Education	\$114,000	6
	Illinois State Board of Education	\$0	1
	Michigan Ctr. for Urban African American Aging Research	\$26,540	1
	Michigan State University	\$1,960	2

State	Northeastern University	\$329,999	1
Agencies	Subtotal	\$472,499	12
<i>Continued</i>			
Corporations	Abbott Laboratories	\$5,000	1
	Aries Charter	\$6,564	1
	Baxter Healthcare Corporation	\$25,000	2
	Blackrock Investments LLC	\$24,997	1
	Blue Cross and Blue Shield of Illinois	\$498,866	1
	Boeing	\$150,000	2
	Chan Zuckerberg Initiative	\$718,746	2
	Facebook	\$72,001	1
	Health Care Service Corporation	\$561,024	1
	Hostel International Chicago	\$17,470	1
	JPMorgan Chase & Co.	\$ 4,544,984	1
	Kimberly Clark Corporation	\$40,000	2
	Legal and General Investment Management	\$15,000	1
	Microsoft Corporation	\$200,000	2
	MindXplorer	\$226,000	10
	MOTOROLA	\$144,519	3
	Sotheby's	\$250,000	1
	University Center Property, LLC	\$22,160	1
	Zebra Technologies Corporation	\$30,072	1
	Subtotal	\$7,552,403	35
Foundations	Academy Foundation	\$25,000	1
	American Honda Foundation	\$74,856	1
	American Psychological Foundation	\$29,980	2
	Bank of America Charitable Foundation	\$50,000	1
	The Lynde and Harry Bradley Foundation	\$49,720	3
	The Annie E. Casey Foundation	\$398,167	4
	The Chicago Community Trust	\$291,134	7
	Children First Fund	\$86,932	1
	CME Group Foundation	\$100,102	3
	Coleman Foundation	\$98,760	2
	Foundation for Child Development	\$217,751	1
	Lloyd A. Fry Foundation	\$61,590	1
	Gannett Foundation	\$27,840	1
	Bill & Melinda Gates Foundation	\$584,030	4
	William T. Grant Foundation	\$1,770,000	3
	John Simon Guggenheim Memorial Foundation	\$80,000	1
	Gerda Henkel Foundation	\$231,095	1
	Rita and Alex Hillman Foundation	\$50,000	1
	Conrad N. Hilton Foundation	\$5,843,436	3
	Illinois Immigration Funders Collaborative	\$75,000	1
	Illinois Nurses Foundation	\$10,000	1
	Japan Foundation Los Angeles	\$10,000	1
	JCCC Foundation	\$3,050	1
	Robert Wood Johnson Foundation	\$783,429	3

Foundations	Charles Koch Foundation	35,000	1
	Continued		
	Lawyer's Trust Fund of Illinois	\$224,955	2
	New York Community Trust	\$4,996	1
	Penn National Gaming Foundation, Inc.	\$27,154	1
	PNC Foundation	\$64,000	2
	Polk Bros. Foundation	\$80,000	2
	Prevent Cancer Foundation	\$24,992	1
	Retirement Research Foundation	\$300,000	2
	Rockefeller Foundation	\$1,500	1
	Russell Sage Foundation	\$69,641	1
	David C. & Sarajeon Ruttenberg Arts Foundation	\$25,000	1
	Spencer Foundation	\$852,920	4
	Terra Foundation for American Art	\$6,000	1
	Carl & Marilyn Thomas Art Foundation	\$319,110	3
	The Teagle Foundation	\$25,000	1
	The U.S. Russia Foundation	\$124,937	1
	The Andy Warhol Foundation for the Visual Arts	\$117,865	1
	Woodrow Wilson National Fellowship Foundation	\$15,750	1
	Subtotal	\$13,270,692	75
Other Organizations	100000 Strong in the Americas	\$4,167	1
	AccessLex Institute	\$25,000	1
	Albright Institute	\$20,000	1
	Alphonsus Academy & Center for the Arts	\$9,000	1
	American Academy in Rome	\$28,000	1
	American Council of Learned Societies	\$100,000	2
	American Heart Association National Center	\$221,222	1
	American Medical Association	\$752,513	3
	American Psychological Association	\$1,000	1
	Archdiocese of Chicago	\$17,145	3
	Archeological Institute of America	\$36,306	1
	Association for Psychological Science	\$500	1
	BlueNotes Group	\$14,725	1
	Bridge Communities Inc.	\$6,578	1
	Chicago Architecture Biennial, Inc.	\$24,000	2
	Chicago Public Education Fund	\$2,000	1
	Communities United	\$0	1
	Council for International Exchange of Scholars	\$72,797	3
	Elevated Chicago	\$30,000	2
	Enterprise Community Partners	\$125,000	1
	Fordham University	\$49,989	1
	Greater Chatham Initiative	\$4,000	1
	Howard Hughes Medical Institute	\$1,000,000	2
	Illinois Criminal Justice Information Authority	\$0	1
	Infant Jesus of Prague School	\$18,000	2
	The Institute of Internal Auditors	\$13,700	1
	Institute of Medicine of Chicago	\$95,453	2
	International Growth Centre	\$22,089	1
	Israel Nature and Parks Authority	\$30,000	1

Other Organizations	J. Paul Getty Trust	\$65,000	1
	Little Black Pearl	\$2,500	1
<i>Continued</i>	Louisville Institute	\$30,000	1
	Major League Baseball Players' Association	\$50,000	1
	Mathematical Association of America	\$5,000	1
	National Academies of Sciences	\$50,000	1
	National Collaborative on Gun Violence Research	\$339,695	1
	National Council of State Boards of Nursing	\$126,220	1
	National Humanities Center	\$42,770	1
	National Urban League	\$42,436	1
	Negotiation and Team Resources Institute	\$19,980	2
	New York University	\$53,798	2
	Office of Catholic Schools	\$10,000	1
	Our Lady of Tepeyac High School	\$1,250	1
	Princeton Institute for Advanced Studies	\$78,000	1
	Radcliffe Institute for Advanced Study	\$82,500	1
	Religious Ethics Inc.	\$30,000	1
	Sigma Theta Tau International Honor Society	\$12,050	1
	Sinai Community Institute	\$5,000	1
	Sinai Urban Health Institute	\$40,000	1
	Social Science Research Council	\$3,500	1
	Southwest Organizing Project	\$12,500	1
	Stanford Humanities Center	\$100,000	1
	Telligen Community Initiative	\$50,000	1
	The Huntington Library	\$50,000	1
	The Resurrection Project	\$37,455	1
	Urban Land Institute of Chicago	\$10,000	2
	Subtotal	\$4,072,838	71

TOTAL	\$75,441,140	369
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Technical Note: Entries with a zero-dollar value are submissions that did not request funds from a sponsor. These may be submissions in which DePaul is providing cost share only, or submissions related to Data Requests, Materials Transfer, etc.

II. EXTRAMURAL AWARDS

The Extramural Awards section of the report summarizes the activities of the Award Management unit of ORS. Award Management staff help faculty and staff manage grants, contracts, cooperative agreements and other award mechanisms through a variety of activities that begin when a notice of grant award is issued and extend until the award is closed-out. ORS is assisted in this function by the Restricted Accounting Office; management of corporate and foundation sponsored project awards is done in concert with DePaul's Advancement Office. The number of awards and the level of funding associated with those awards are the metrics used to understand this unit's level of activity. Therefore, these two metrics are incorporated into the various tables that are used to report on Award Management activities in Section II. This year's *Annual Report* also highlights awards the University received in FY 2020 that equal or exceed \$100K in funding and includes individual listings of awards received in FY 2020 by project lead.

FEATURED AWARDS

Many faculty at DePaul balance their responsibilities in the classroom educating and mentoring students with competing for and securing external funding in support of their research, scholarship, and service activities. Their extramurally-funded projects not only hold the potential to impact the scholarly community but also society as a whole. A sampling of DePaul University's FY 2020 awarded projects are detailed below.

Principal Investigator: W. LaVome Robinson

Academic Unit: CSH

Award: National Institutes of Health; 9/1/19-6/30/2021; \$1,235,922; Year 1 funding of a five-year award totaling \$6,615,750

The project, *Preventing Suicide in African American Adolescents*, will test the effectiveness of a culturally-adapted, school-based suicide prevention intervention, for low-resourced, urban, African American 9th grade students.

Rates of suicide among African American youth have increased substantially in the past 20 years, and suicide is currently one of the leading causes of death among African American adolescents. As such, there is a need for effective, sustainable prevention interventions for this population.

Principal Investigator: David Jabon

Academic Unit: CSH

Award: National Science Foundation; 7/1/19-6/30/2023; \$617,710

In the project, *Building a Teacher Knowledge Base for The Implementation of High-quality Instructional Resources*, DePaul and its collaborators will address the pressing national need to generate shared, practice-based knowledge about how to best implement freely available, high-quality mathematics instructional resource lessons. These lessons have been shown to produce significant gains in student learning outcomes when effectively utilized.

Principal Investigator: Leonard Jason

Academic Unit: CSH

Award: National Institutes of Health; 7/1/19-11/30/2020; \$613,912; Year 1 funding of a five-year award totaling \$2,857,765

Pathophysiological underpinnings of the development of myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) are poorly understood. This longitudinal study, *Maintenance and Incidence of ME/CFS following Mono*, will assess both clinical and biological maintenance factors of ME/CFS, and determine prospectively the incidence of ME/CFS in a sample of young adults. Assessments of the psychological, autonomic and biological risk factors for the development of ME/CFS, as part of this study, may contribute to our understanding of underlying mechanisms of the disease.

Principal Investigator: Anthony LoSasso

Academic Unit: Business

Award: Health Care Services Corporation; 1/1/2020-12/31/2022; \$561,024

This project, *Pathophysiological Selective Contracting and Provider Market*

Concentration: Implications for Patient Access and Well-Being, examines the causes and consequences of narrow-network plan design, and studies whether such plans have been effective at combating rising health care prices and boosting consumer well-being.

Principal Investigator: Patricia Bombard

Academic Unit: LAS

Award: Conrad N. Hilton Foundation; 3/1/20-2/28/2021; \$465,000; Year 1 of a three-year award totaling \$1,500,000

In the project *DePaul University and Tangaza University College Partnership: Capacity Building and Leadership Development for Catholic Sisters*, DePaul University in collaboration with Tangaza University College will facilitate the conduct of activities designed to build leadership capacity for Catholic Sisters who are senior and emerging leaders in congregations. The program which primarily serves those who work in congregations in East Africa, offers a pathway to a continuing education for program graduates, as well as enhanced training, resources and tools for emerging leaders and their lay counterparts.

Principal Investigator: Daniela Raicu

Academic Unit: CDM

Award: National Science Foundation; 3/1/2020-2/28/2023; \$406,536

The *Medical Informatics (MedIX) Research Experience for Undergraduates* (REU) Site program engages undergraduate students in challenging interdisciplinary research projects at the border of information technology and medicine. Students work as part of faculty-undergraduate teams on new problems ranging from traditional image processing (e.g., computer-aided diagnosis for lung cancer, breast density assessment, age-related macular degeneration prognosis) to structured reporting and natural language processing of radiology reports to visualization and annotation of images from multiple imaging modalities using novel computer vision, artificial intelligence, machine learning, and data science algorithms. The program also encourages participating students to pursue graduate education.

Principal Investigator: Jalene LaMontagne

Academic Unit: CSH

Award: National Science Foundation; 9/1/19-8/31/2023; \$351,850

Changes in climate often result in the appearance of unusually warm and dry conditions in one part of the world with cold and wet conditions thousands of miles away. These lasting and predictable fluctuations in temperature and rainfall are known as "climatic dipoles" and often emerge across years or decades. This research, *The influence of climatic dipoles on plant and animal populations at continental scales*, poses a novel framework of methods applied for space-time pattern discovery, used by climate scientists to analyze variability, to identify climate-ecological dipoles across North America.

Principal Investigator: Tanu Malik

Academic Unit: CDM

Award: National Science Foundation; 9/1/19-8/31/2022; \$331,932

For science to reliably support new discoveries, its results must be reproducible. This has proven to be a challenge in many fields including, most notably, fields that rely on computational studies as a means for supporting new discoveries. Reproducibility in these studies is particularly difficult because they require open sharing of data and models and careful control by the original researcher. This is to ensure that products can be run on later generations of hardware and software and produce consistent results. This project, *Integration of Reproducibility into Community Cyberinfrastructure*, will develop software that helps support computational reproducibility and makes it easier and more efficient for geoscientists to preserve, share, repeat and replicate scientific computations.

Principal Investigator: Fernando DeMaio

Academic Unit: LAS

Award: American Medical Association; 7/1/19-11/30/2020; \$248,879

Under the *Joint Appointment Agreement* between DePaul University and the American Medical Association (AMA), the University will engage in mutually agreed upon activities designed to develop, enhance and implement the strategic goals of the AMA's Center for Health

Equity. These activities will develop and implement an evaluation and research agenda that advances the work of the unit and the AMA at large.

Principal Investigator: Bernadette Sanchez

Academic Unit: CSH

Award: National Science Foundation; 10/1/2019-9/30/2022; \$229,722

Museums in the U.S. receive approximately 55 million visits each year from students in school groups. While field trips are popular, especially at science museums, there have been no experimental studies about their impact on STEM career choices and interests, much less any which used a culturally sensitive and responsive approach. Given the resources put into field trips this study, *Investigating How Museum Experiences Inform Youths' STEM Career Awareness and Interest*, investigates if causal links can be drawn between museum experiences and impact on youth.

Principal Investigator: Bernadette Sanchez

Academic Unit: CSH

Award: National Science Foundation; 9/1/2019-8/31/2021; \$188,774; Year 1/2 of a five-year award totaling \$533,257

This project, *Collaborative Research: A Multi-level Investigation of STEM Mentoring: Outcomes for Middle School Youth, their Mentors, and Partner Organizations*; examines mentoring, a widely accepted strategy for supporting positive socioemotional and cognitive development across a variety of sectors including education, workforce development, and the justice system. Through a series of studies, the team will investigate which elements of the mentoring relationships are specifically associated with the STEM identity gains in middle-grade youth participants. The work will also contribute much-needed data on the impact of STEM mentoring relationships on the mentors.

Principal Investigator: Lucia Dettori

Academic Unit: CDM

Award: National Science Foundation; 1/1/2020-9/30/2021; \$173,091

This project, *Collaborative Research: Chicago Alliance For Equity in Computer Science*

(CAFECS) Supplement, will provide professional development to CPS teachers that will pilot a flexible Exploring Computer Science (ECS) course to support students who will need to make up a computer science class to graduate from high school. The pilot advances research and development efforts in support of a full online credit-recovery ECS option that has the potential to make ECS available to students who are incarcerated or in other alternative learning situations and may not have access to computer science education.

Principal Investigator: Charles Wurtzbach

Academic Unit: Business

Award: The John D. and Catherine T. MacArthur Foundation; 10/1/2019-9/30/2020; \$150,000; Year 1 of a two-year award totaling \$300,000

This project, *Support IHS Applied Research and Technical Assistance Work*, allows the Institute for Housing Services to develop new and innovative applied research products that highlight the housing and community development challenges and opportunities facing the region's neighborhoods and work with a diverse group of regional stakeholders to strategically connect the Institute's unique data resources to policy development, implementation, and evaluation.

Principal Investigator: Sheena Erete

Academic Unit: CDM

Award: National Science Foundation; 3/1/2020-2/28/2021; \$149,982

Amid growing commitment to address inequities of access to quality learning, this Smart and Connected Communities Planning Grant, *Cultivating a Smart Equity-Driven Policymaking Infrastructure to Improve Youth Learning Opportunities*, supports the creation of a collaborative working group. The working group, consisting of Chicago city agencies, community-based out-of-school time (OST) program providers, schools, funding organizations, families, and youth in Chicago, will collaborate to create a smart, equitable out-of-school learning infrastructure that more effectively allocates learning resources, such as spaces, mentors, technology, and funding, in

order to eradicate OST learning deserts in Chicago.

Principal Investigator: Thiruvarangan Ramaraj

Academic Unit: CDM

Award: National Science Foundation; 9/1/2019-3/31/2021; \$139,025

The project, *Sequence Resources for Cotton, a Model System for Allopolyploid Crops*, is focused on genome assembly and annotation of cotton lines. DePaul, together with collaborating institutions, is developing computational pipeline for discovering single nucleotide polymorphisms, completing genome assemblies and annotation, analysis of resequenced *Gossypium* genomes, and establishing a concrete database of all the sequence variations. The database is expected to serve as a resource for the cotton community for unfolding population structures and deciphering other biologically relevant information.

Principal Investigator: Thiruvarangan Ramaraj

Academic Unit: CDM

Award: National Science Foundation; 11/1/2019-7/31/2021; \$138,321

This project, *Collaborative Research: ABI Innovation: Biofilm Resource and Information Database (BRaID): A Tool to Fuse Diverse Biofilm Data Types*; seeks to construct a biofilm resource and information database (BRaID). BRaID will serve as a community resource containing not only DNA data, but also rich information describing the geographical locations from which they are sampled, as well as their microenvironments, such as water chemistry, environmental parameters, perturbations and interventions (e.g., changes in temperature, addition of corrosion inhibitors, and antibiotic treatments).

Investigator: John Zeigler

Academic Unit: Steans Center

Award: Robert R. McCormick Foundation; 1/1/2020-8/31/2021; \$125,000; Year 1 of a two-year award totaling \$250,000

The project *Multi-Faith Veteran Initiative*; supports veterans and veteran family members who are transitioning from military service through engagement with local churches, faith-based organizations and social service providers

to meet veterans' needs. Convening providers within the veteran's community spaces provides immediate access points for veterans and veteran family members, strengthening circles of care. This approach also creates opportunities for veterans to serve as agents of change in their communities as they transition from military service.

Principal Investigator: Sarah Connolly

Academic Unit: CSH

Award: National Institutes of Health; 12/1/2019-11/30/2020; \$114,080; Year 1 of a five-year award totaling \$649,244

The project, *Mechanism of herpes simplex virus (HSV) induced membrane fusion*, will study herpes simplex virus type 1 entry into target cells. The Connolly laboratory will provide significant expertise in the design, construction, and preliminary analysis of HSV-1 mutants with altered fusion function.

Principal Investigator: Nathan Matteson

Academic Unit: CDM

Award: National Science Foundation; 9/1/2019-8/31/2020; \$111,995

As part of the *DMUU: Center for Robust Decision-Making Tools for Climate and Energy Policy*, DePaul University is assisting with the completion of three major code products including interactive maps of the US Energy infrastructure, an interactive viewer for global gridded datasets produced by other RDCEP initiatives, and an animated, interactive Sankey graph of U.S. energy usage from 1800-2017.

Principal Investigator: Sioban Albiol

Academic Unit: Law

Award: Lawyer's Trust Fund of Illinois; 1/1/2020-12/31/2020; \$100,000

The project, *College of Law Asylum and Immigration Law Clinic Legal Resources Project*, facilitates DePaul University's ability to provide capacity-building assistance, including case consultation and staff professional development training, to community-based organizations throughout Illinois to make civil legal services, related to asylum and immigration more accessible.

Principal Investigator: David Jabon

Academic Unit: CSH

Award: CME Group Foundation; 7/1/2019-6/30/2020; \$100,000; Year 1 of a two-year award totaling \$200,000

Expanding the Impact of the Elementary Math Specialist Program is comprehensive mathematics training sequence for teachers at the elementary level. The program, which provides provide elementary school teachers with the knowledge, confidence, and tools to effectively teach mathematics to young children, will train a cohort of 15 Chicago Public School teachers with the funding made available by the foundation.

AWARD TRENDS

In FY 2020, DePaul University received 125 new and continuation awards from external funding agencies; revenue from sponsored projects totaled \$11,765,882 in fiscal year 2020. This revenue total includes \$8,428,769 in new award dollars and \$3,337,113 in FY 2020 continuation funding. Continuation funding occurs when a funding agency makes an award commitment to the institution, but transfers the award dollars to the institution, incrementally, typically in annual installments based on satisfactory technical progress on a project. Continuation dollars are counted by DePaul as award volume in the year in which the funds are actually received, rather than at time of initial award notice projecting future receipt of such funds.

In comparison to FY 2014, the number of new and continuation awards received in FY 2020 increased 31.6% from 95 to 125, while award revenue decreased an estimated 8.6% from \$12,872,793 to \$11,765,882. As compared to FY 2019, the number of new and continuation awards received in FY 2020, increased 7.7%, from 116 to 125. Corresponding award revenue for new and continuation awards received in FY 2020 increased 67.5% over FY 2019 levels, from \$7,025,125 to \$11,765,882.

AWARDS BY PURPOSE

While new extramural awards received by DePaul in FY 2020 cover a broad spectrum of activities, as detailed in Table 2.1, research-related activities account for the preponderance of this year's support. An estimated 75% of the 84 new awards received by DePaul University in FY 2020 were in support of research. Similarly, 91% of the \$7.7M

in new funds awarded to the University in FY 2020 supported research activities. Community service activities accounted for \$469K, or 6%, of new award funds received in FY 2020, while support for academic programs accounted for 2.7% of new dollars, or \$230K.

AWARDS BY SOURCE

DePaul University, like other academic institutions, relies on funding from a variety of sources, including the federal government, state, municipal agencies, as well as private sources of support such as associations, corporations, foundations, and other organizations to support its sponsored activities.

Table 2.1: FY 2020 New Awards by Purpose

Purpose	Award #	%	Award \$	%
Research	63	75%	\$7,702,130	91%
Community Service	15	18%	\$468,912	6%
Academic Programs	5	6%	\$230,727	2.7%
Conference	0	0%	\$0	0%
Other	1	1%	\$27,000	0.3%
Total	84	100%	\$8,428,769	100%

On a national level, the federal government has consistently been the single largest contributor to academic research and development, providing an estimated 54% of support in FY 2018, the latest year for which data are available. As summarized in Table 2.2, DePaul's supported is similarly concentrated in the public sector. An estimated 65%, or \$5.5M, of the new funds awarded to DePaul in FY 2020 originated with public sources of support.

Table 2.2: FY 2020 New Awards by Type

Type	Award #	Award \$
Public	37	\$5,519,571
Private	47	\$2,909,198
Total	84	\$8,428,769

The federal agencies, in turn, provided 95% or \$5.2M of the newly awarded public share (Table 2.3) in FY2020.

Table 2.3: FY 2020 New Awards Public Detail

Type	Award #	Award \$
Federal	23	\$5,265,499
Municipal	12	\$217,072
State	2	\$37,000
TOTAL	37	\$5,519,571

AWARDS BY UNIT

As indicated in Table 2.4, seven of DePaul's ten Colleges received new sponsored project funding in FY 2020, as did several University administrative units. The College of Science and Health (CSH) is the most prominent

recipient of sponsored project funding, accounting for an estimated 31% of the new awards received by the University in FY 2020. In FY 2020, CSH's new award volume totaled 26; the dollar share of these new awards equaled \$3,858,675, or 45.8% of the University's new award volume of \$8,428,769. The Colleges of Computing and Digital Media (21.4%), Business (13.2%) and Liberal Arts and Social Sciences (12.5%) also contributed substantively to the University's new award revenue in FY 2020. The Colleges of Law, Education and Communication each contributed lesser shares

Table 2.4: FY 2020 New Awards by Unit

Unit	Award #	%	Award \$	%
College of Business	19	22.62%	\$1,116,924	13.25%
College of Communication	1	1.19%	\$1,960	0.02%
College of Computing & Digital Media	16	19.05%	\$1,803,958	21.40%
College of Education	3	3.57%	\$92,335	1.10%
College of Law	4	4.76%	\$193,515	2.30%
College of Liberal Arts & Social Sciences	9	10.71%	\$1,054,550	12.51%
College of Science & Health	26	30.95%	\$3,858,675	45.78%
School for Continuing & Professional Studies	0	0.00%	\$0	0.00%
School of Music	0	0.00%	\$0	0.00%
The Theatre School	0	0.00%	\$0	0.00%
Administrative Units	6	7.14%	\$306,852	3.64%
TOTAL	84	100%	\$8,428,769	100%

Technical Note: National data references in this Section are from the National Science Board's publication entitled, *Science and Engineering Indicators, January 2020*; <https://nces.nsf.gov/pubs/nsb20202>.

AWARDS BY SOURCE OF SUPPORT

Extramural New and Continuation Awards

	AGENCY	AMOUNT	NUMBER
Federal Agencies	Illinois Space Grant Consortium Office (NASA)	\$65,000	1
	Jumpstart for Young Children, Inc.	\$75,685	1
	Library of Congress	\$89,035	1
	National Institutes of Health	\$3,857,945	10
	National Oceanic and Atmospheric Administration	\$48,895	2
	National Science Foundation	\$3,108,580	19
	Office of Naval Research	\$5,014	1
	U.S. Department of Education	\$643,518	3
	U.S. Department of Health & Human Services	\$35,000	1
	Subtotal	\$7,928,673	39
Municipal Agencies	Chicago Board of Education	\$188,624	16
	Chicago Housing Authority	\$102,122	3
	Community Mental Health Board of Oak Park Township	\$70,000	1
	Cook County Justice Advisory Council	\$75,000	1
	Subtotal	\$435,746	21
State Agencies	Illinois Board of Higher Education	\$37,000	2
	Michigan State University	\$1,960	1
	Subtotal	\$38,960	3
Corporations	Baxter Healthcare Corporation	\$25,000	1
	Boeing	\$50,000	1
	Elevate Energy	\$5,500	1
	Health Care Service Corporation	\$561,024	1
	Kimberly Clark Corporation	\$25,000	1
	Legal and General Investment Management	\$15,000	1
	MindXplorer	\$153,500	5
	Zebra Technologies Corporation	\$30,072	1
	Subtotal	\$865,096	12
Foundations	American Bar Foundation	\$82,437	1
	The Lynde and Harry Bradley Foundation	\$16,060	1
	Children First Fund	\$86,932	1
	The Annie E. Casey Foundation	\$90,000	1
	The Chicago Community Trust	\$150,000	4
	CME Group Foundation	\$150,000	2
	Coleman Foundation	\$50,000	1
	Julian Grace Foundation	\$75,000	1
	Conrad N. Hilton Foundation	\$465,000	1
	Illinois Immigration Funders Collaborative	\$75,000	1
	Charles Koch Foundation	\$35,000	1
	Lawyer's Trust Fund of Illinois	\$100,000	1

Foundations <i>Continued</i>	The John D. and Catherine T. MacArthur Foundation	\$150,000	1
	Robert R. McCormick Foundation	\$125,000	1
	PNC Foundation	\$24,000	2
	Polk Bros. Foundation	\$105,000	2
	David C. & Sarajeon Ruttenberg Arts Foundation	\$25,000	1
	The Teagle Foundation	\$25,000	1
	Woodrow Wilson National Fellowship Foundation	\$15,750	1
	Subtotal	\$1,845,179	25
Other Organizations	100000 Strong in the Americas	\$4,167	1
	American Medical Association	\$248,879	1
	Antiquities Endowment Fund	\$75,084	1
	Astrophysical Research Consortium/SDSS	\$14,576	1
	Bridge Communities, Inc.	\$6,578	1
	Chicago Public Education Fund	\$2,000	1
	Chicago Recovery Alliance	\$8,259	1
	City Tech Collaborative	\$36,000	1
	Elevated Chicago	\$5,000	1
	Greater Chatham Initiative	\$4,000	1
	Illinois Municipal League Association	\$18,180	1
	Infant Jesus of Prague School	\$8,000	1
	The Institute of Internal Auditors	\$11,400	1
	Little Black Pearl	\$2,500	1
	New York University	\$30,000	1
	Office of Catholic Schools	\$10,000	1
	Our Lady of Tepeyac High School	\$1,250	1
	Pacific Sociological Association	\$37,400	1
	The Resurrection Project	\$37,455	1
	Sigma Theta Tau International Honor Society	\$2,500	1
	Sinai Community Institute	\$5,000	1
	Sinai Urban Health Institute	\$40,000	1
	St. Alphonsus Academy & Arts Center	\$9,000	1
	Urban Land Institute of Chicago	\$5,000	1
	Wabash Center for Teaching and Learning	\$30,000	1
	Subtotal	\$652,228	25
TOTAL		\$11,765,882	125

INDIVIDUAL AWARD LISTINGS

Extramural New and Continuation Awards

Adelakun, Olayele; Legal and General Investment Management; *Chatbot II: AWS Database*; 9/20/2019-1/31/2020; \$15,000

Adelakun, Olayele; Kimberly Clark Corporation; *Proof of Concept for a Lifestyle Application*; 11/12/2019-11/11/2020; \$25,000

Adelakun, Olayele; Baxter Healthcare Corporation; *My Baxter Portal*; 6/9/2020-8/31/2020; \$25,000

Aguirre, Windsor; National Oceanic and Atmospheric Administration; *Conservation Genomics and Caribbean Fisheries Management: Stock Structure and Connectivity of Four Parrotfish Species and the Role of MPAs as Recruitment Sources*; 9/1/2019-8/31/2020; \$24,146

Aguirre, Windsor; National Oceanic and Atmospheric Administration; *Conservation Genomics and Caribbean Fisheries Management: Stock Structure and Connectivity of Four Parrotfish Species and the Role of MPAs as Recruitment Sources*; 9/1/2020-8/31/2021; \$24,749

Agyepong, Tera; American Bar Foundation; *ABF Research Professorship Joint Appointment*; 9/1/2019-8/31/2022; \$82,437

Albiol, Sioban; Polk Bros. Foundation; *Legal Resources Project for Immigrant Service Providers*; 7/1/2019-6/30/2020; \$65,000

Albiol, Sioban; The Resurrection Project; *A2J Capacity Building & Technical Assistance*; 1/1/2020-6/30/2020; \$37,455

Albiol, Sioban; Illinois Immigration Funders Collaborative; *Building Immigration Services Capacity Through Partnership*; 1/7/2020-1/7/2021; \$75,000

Albiol, Sioban; Julian Grace Foundation; *Improving Access to Immigration Legal Services*; 11/7/2019-11/6/2020; \$75,000

Albiol, Sioban; Lawyer's Trust Fund of Illinois; *DePaul Asylum and Immigration Legal Clinic Support*; 1/1/2020-12/31/2020; \$100,000

Alderden, Megan; Cook County Justice Advisory Council; *Justice Advisory Council Grant Process Evaluation*; 10/15/2019-10/14/2020; \$75,000

Andolina, Molly; The Teagle Foundation; *Liberal Studies, the Social Contract, and Lived Civics: Engaging Undergraduates across the Curriculum*; 9/1/2020-8/31/2021; \$25,000

Beck-Winchatz, Bernhard; Illinois Space Grant Consortium Office; *NASA-based Courses for Chicago Public School Teachers*; 4/10/2019-4/9/2020; \$65,000

Berardi, Luciano; U.S. Department of Education; *DePaul University Ronald E. McNair Post-Baccalaureate Achievement Program*; 10/1/2019-9/30/2020; \$252,412

Besana, GianMario; 100000 Strong in the Americas; *Educational Digital Game to Prevent Cyberbullying*; 1/1/2020-4/30/2021; \$4,167

Bombard, Patricia; Conrad N. Hilton Foundation; *DePaul University and Tangaza University College Partnership: Capacity Building and Leadership Development for Catholic Sisters*; 3/1/2020-2/28/2021; \$465,000

Brown, Molly; Bridge Communities Inc.; *Bridge Communities Trauma-Informed Care Assessment*; 12/1/2019-6/30/2020; \$6,578

Buckling, Scott; Antiquities Endowment Fund; *Beni Hassan South Preservation Project*; 1/1/2020-12/31/2020; \$75,084

Buscemi, Joanna; National Institutes of Health; *An e-Health Intervention to Improve Symptom Burden and HRQOL among Hispanic Women Completing Active Treatment for Breast Cancer*; 9/1/2019-8/31/2020; \$11,685

Carlberg-Racich, Suzanne; Chicago Recovery Alliance; *Community Assessment of Overdose Prevention Interventions: The role of comprehensive drug testing and community health worker initiatives in mitigating fatal overdose*; 6/15/2019-12/31/2019; \$8,259

Coll, Alberto; The Lynde and Harry Bradley Foundation; *The Constitution and American Foreign Policy*; 9/19/2019-9/30/2020; \$16,060

Connolly, Sarah; National Institutes of Health; *Mechanism of Herpes Simplex Virus (HSV) Induced Membrane Fusion*; 12/1/2019-11/30/2020; \$114,080

DeMaio, Fernando; American Medical Association; *Joint Appointment Agreement*; 5/1/2020-4/30/2022; \$248,879

Dettori, Lucia; CME Group Foundation; *DeSports - A DePaul-CPS High School Program Leveraging Esports for Career Exploration and 21st Century Skills Development*; 6/15/2020-6/30/2021; \$50,000

Dettori, Lucia; National Science Foundation; *Collaborative Research: Chicago Alliance For Equity in Computer Science (CAFECS) Supplement*; 1/1/2020-9/30/2021; \$173,091

Duignan, James; Chicago Board of Education; *CPS Arts Education Professional Development Workshop*; 9/15/2019-9/30/2019; \$1,300

Erete, Sheena; National Science Foundation; *SCC-PG: Cultivating a Smart Equity-Driven Policymaking Infrastructure to Improve Youth Learning Opportunities*; 3/1/2020-2/28/2021; \$149,982

Flores, Michael; Chicago Housing Authority; *Next Level Photography*; 5/1/2020-9/30/2020; \$28,609

Flores, Michael; Chicago Housing Authority; *TV and Movie Scripts 101*; 6/1/2020-5/31/2021; \$28,338

Flores, Michael; Chicago Housing Authority; *Become a Filmmaker*; 6/1/2020-5/31/2021; \$45,175

Gonzalez Aviles, Gabriela; National Science Foundation; *MRSEC: Center for Multifunctional Materials*; 9/1/2019-8/31/2020; \$40,520

Grant, Kathryn; National Institutes of Health; *An interpersonal relationships intervention for improving cardiovascular health in youth, Minority Supplement*; 6/1/2019-5/31/2020; \$56,543

Grant, Kathryn; National Institutes of Health; *Understanding Diverging Profiles of Academic and Physical Health Outcomes in African American Youth*; 6/1/2019-5/31/2020; \$25,517

Grant, Kathryn; National Institutes of Health; *An interpersonal relationships intervention for improving cardiovascular health in youth*; 6/1/2019-5/31/2020; \$166,525

Grant, Kathryn; National Institutes of Health; *Trauma exposure, emotion regulation and cognitive skills in early childhood: Prospective and longitudinal examination of the mechanisms of adjustment*; 2/1/2020-1/31/2021; \$48,229

Hancock, Blackhawk; Pacific Sociological Association; *Co-Editor Proposal for Sociological Perspectives*; 7/1/2019-12/31/2022; \$37,400

Jabon, David; National Science Foundation; *Building a Teacher Knowledge Base for The Implementation of High-quality Instructional Resources through the Collaborative Investigation of Video Cases*; 7/1/2019-6/30/2023; \$617,710

Jabon, David; CME Group Foundation; *Expanding the Impact of the Elementary Math Specialist Program*; 7/1/2019-6/30/2020; \$100,000

Jabon, David; Children First Fund; *Elementary Math Specialist Community of Practice*; 7/1/2019-7/31/2021; \$86,932

Jason, Leonard; National Institutes of Health; *Maintenance and Incidence of ME/CFS Following Mono*; 1/1/2020-11/30/2020; \$613,912

Karver, Caitlin; National Science Foundation; *The Reaction of Tetracene and Pentacene Crystals*; 8/1/2019-7/31/2020; \$4,882

Kiel, Donna; Library of Congress; *Library of Congress Civic Learning and Engagement using Primary Sources*; 10/1/2019-9/30/2020; \$89,035

Kiel, Donna; Office of Catholic Schools; *Catholic Schools Principal Research*; 5/1/2019-4/30/2020; \$10,000

Kiel, Donna; MindXplorer; *Teacher Cultivation of Critical Thinking*; 8/1/2019-9/30/2019; \$12,000

Kiel, Donna; MindXplorer; *Teacher Training in Chicago*; 9/18/2019-10/30/2019; \$99,500

Kiel, Donna; MindXplorer; *Psychological Health Education-the Cultivation of Students' Healthy Personality*; 10/1/2019-10/31/2019; \$12,000

Kiel, Donna; MindXplorer; *Student Centered Teaching and Experiential Teaching*; 9/1/2019-11/15/2019; \$12,000

Kiel, Donna; MindXplorer; *Brain Science Based Teaching*; 5/6/2020-5/16/2020; \$18,000

Kiel, Donna; Little Black Pearl; *Innovative Teaching and Project Based Learning Microcredential*; 12/1/2019-6/30/2020; \$2,500

Kiel, Donna; Infant Jesus of Prague School; *Catholic Innovative Microcredential Program*; 9/1/2019-6/30/2020; \$8,000

Kiel, Donna; Our Lady of Tepeyac High School; *Culture of Social Emotional Agency*; 1/28/2020-2/28/2020; \$1,250

Kiel, Donna; St. Alphonsus Academy & Arts Center; *Professional Development and Development Coaching*; 9/1/2019-6/30/2020; \$9,000

LaMontagne, Jalene; National Science Foundation; *MRA: The Influence of Climatic Dipoles*; 9/1/2019-8/31/2023; \$351,850

Lewis, Andre; Illinois Board of Higher Education; *Diversifying Higher Education Faculty 19-20*; 7/1/2019-6/30/2020; \$27,000

Losasso, Anthony; Health Care Service Corporation; *Selective Contracting and Provider Market Concentration: Implications for Patient Access and Well-Being*; 1/1/2020-12/31/2022; \$561,024

Losasso, Anthony; Charles Koch Foundation; *Occupational Regulations and the Labor Market for Healthcare Professionals*; 2/1/2020-1/31/2021; \$35,000

Malik, Tanu; National Science Foundation; *EarthCube Data Capabilities: Collaborative Research: Integration of Reproducibility into Community Cyberinfrastructure*; 9/1/2019-8/31/2022; \$331,932

Matteson, Nathan; National Science Foundation; *Center for Robust Decision-making on Climate and Energy*; 9/1/2019-8/31/2020; \$17,857

Matteson, Nathan; National Science Foundation; *Center for Robust Decision-Making Tools for Climate and Energy Policy Supplement*; 9/1/2019-8/31/2020; \$111,995

Mead, Daniel; Illinois Board of Higher Education; *Nurse Educator Fellowship Program FY 2020*; 12/10/2019-6/30/2020; \$10,000

Mertens, Alanna; Chicago Board of Education; *Math Professional Development for Chicago Public Schools Network 12*; 7/1/2019-6/30/2020; \$24,997

Mertens, Alanna; Chicago Board of Education; *Dawes Elementary School: Math Professional Development for Chicago Public Schools*; 7/1/2019-6/30/2020; \$24,979

Mertens, Alanna; Chicago Board of Education; *Cassell Elementary School: Math Professional Development for Chicago Public Schools*; 7/1/2019-6/30/2020; \$7,451

Mertens, Alanna; Chicago Board of Education; *Randolph Elementary School: Math Professional Development for Chicago Public Schools*; 7/1/2019-6/30/2020; \$3,638

Mertens, Alanna; Chicago Board of Education; *Bronzeville Classical Elementary: Math Professional Development for Chicago Public Schools*; 7/1/2019-6/30/2020; \$6,596

Mertens, Alanna; National Science Foundation; *Math Professional Development and Consultancy*; 3/1/2020-9/30/2020; \$4,989

Mikels, Joseph; National Institutes of Health; *Aging, Emotion Regulation, and Stress*; 3/1/2020-2/28/2021; \$192,674

Montague, Enid; Office of Naval Research; *Dynamic Allocation of Autonomy for Human-Robot Teams*; 2/1/2019-1/31/2020; \$5,014

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: McAuliffe Elementary School*; 7/1/2019-6/30/2020; \$12,500

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Nathan Davis Elementary School*; 7/1/2019-6/30/2020; \$8,400

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Lincoln Park High School*; 7/1/2019-6/30/2020; \$10,000

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Hamilton Elementary School*; 7/1/2019-6/30/2020; \$14,250

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Dunbar Academy High School*; 7/1/2019-6/30/2020; \$5,000

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Smyser Elementary School (1)*; 7/1/2019-6/30/2020; \$ 514

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Smyser Elementary School (2)*; 7/1/2019-6/30/2020; \$86

Morrison, Orson; Chicago Board of Education; *Task Order for Social Emotional Learning Services: Joseph E. Gary School*; 7/1/2019-6/30/2020; \$1,200

Morrison, Orson; Community Mental Health Board of Oak Park Township; *Mindful Middle-Schoolers: Resiliency Skills for Anxiety, Depression and Executive Functioning*; 4/1/2020-3/31/2021; \$70,000

Morrison, Orson; U.S. Department of Education; *Healing Trauma Together*; 7/1/2019-9/30/2019; \$80,167

Mundel, Juan; Michigan State University; *Age Identification for Plant Shoppers*; 10/1/2019-5/5/2021; \$1,960

Ostrander, R. Noam; Sinai Urban Health Institute; *Chicago Gun Violence Research Collaborative (CGVRC)*; 8/1/2019-8/15/2020; \$40,000

Pando, Jesus; Astrophysical Research Consortium/SDSS; *Faculty and Student Team (FAST) Support at DePaul University*; 1/1/2020-12/31/2020; \$14,576

Polo, Antonio; Chicago Board of Education; *Task Order for Social Emotional Learning Services Act & Adapt*; 10/1/2019-8/15/2020; \$65,213

Polo, Antonio; The Annie E. Casey Foundation; *An Intervention for Depression among Low-Income Ethnic Minority Youth*; 1/1/2020-7/31/2021; \$90,000

Raicu, Daniela; National Science Foundation; *REU Site: MedIX: Medical Informatics Experiences in Undergraduate Research*; 3/1/2020-2/28/2023; \$406,536

Raicu, Daniela; National Science Foundation; *Supplement to REU Site: MedIX: Medical Informatics Experiences in Undergraduate Research*; 7/15/2019 - 8/31/2020; \$74,396

Ramaraj, Thiruvarangan; National Science Foundation; *Sequence Resources for Cotton, a Model System for Allopolyploid Crops*; 9/1/2019-3/31/2021; \$139,025

Ramaraj, Thiruvarangan; National Science Foundation; *Collaborative Research: Innovation: Pioneering New Approaches to Explore Pangenomic Space at Scale*; 2/7/2020-6/30/2021; \$54,999

Ramaraj, Thiruvarangan; National Science Foundation; *Collaborative Research: ABI Innovation: Biofilm Resource and Information Database (BRaID): A Tool to Fuse Diverse Biofilm Data Types*; 11/1/2019-7/31/2021; \$138,321

Rasin, Alexander; National Science Foundation; *DB-Toolkit: Tools for Database Forensic Analysis and Intrusion Detection*; 6/1/2020-11/30/2020; \$50,000

Renko, Anna-Maija; Coleman Foundation; *Assessment of entrepreneurship training curricula in Chicago community organizations*; 10/2/2019-12/31/2020; \$50,000

Renko, Anna-Maija; U.S. Department of Health & Human Services; *Promoting Entrepreneurship among Low Income Youth with Disabilities*; 9/30/2019-9/29/2020; \$35,000

Rieckhoff, Barbara; Chicago Public Education Fund; *The Chicago Principal Partnership - Pipeline Partners Council*; 8/1/2019-7/1/2020; \$2,000

Rieckhoff, Barbara; Chicago Board of Education; *Principal Preparation Programs for the Chicago Leadership Collaborative*; 8/1/2019-6/30/2020; \$2,500

Robinson, W. LaVome; National Institutes of Health; *Preventing Suicide in African American Adolescents*; 9/1/2019- 6/30/2020; \$1,235,922

Robinson, W. LaVome; National Institutes of Health; *Preventing Suicide in African American Adolescents*; 7/1/2020-6/30/2021; \$1,392,858

Rodrigues Widholm, Julie; David C. & Sarajean Ruttenberg Arts Foundation; *The World to Come: Art in the Age of the Anthropocene*; 9/3/2019-9/2/2020; \$25,000

Sanchez, Bernadette; National Science Foundation; *Collaborative Research: A Multi-level Investigation of STEM Mentoring: Outcomes for Middle School Youth, their Mentors, and Partner Organizations*; 9/1/2019-8/31/2021; \$188,774

Sanchez, Bernadette; National Science Foundation; *Investigating How Museum Experiences Inform Youths' STEM Career Awareness and Interest*; 10/1/2019-9/30/2022; \$229,722

Schwieterman, Joseph; Illinois Municipal League Association; *Illinois Municipal League Journal*; 2/1/2019-1/31/2020; \$18,180

Sharevski, Filippo; Zebra Technologies Corporation; *Security Assessment of Zebra RFID Products*; 3/6/2020-12/31/2020; \$30,072

Shelby, Quinetta; National Science Foundation; *Illinois LSAMP STEM Pathway and Research Alliance (ILSPRA)*; 9/1/2019-8/31/2020; \$22,000

Shelton, Sandra; The Institute of Internal Auditors; *2020 IAEP Grant Request*; 3/1/2020-2/28/2021; \$11,400

Shilling, James; Sinai Community Institute; *Proposed Work Scope for the Institute for Housing Studies (IHS) Data Support of North Lawndale Community Coordinating Council*; 3/1/2020-3/31/2020; \$5,000

Shilling, James; The Chicago Community Trust; *Providing Data Support to Elevated Chicago and Co-Chair Knowledge Sharing Working Group*; 1/1/2020-12/31/2020; \$25,000

Shilling, James; Greater Chatham Initiative; *Updated Property Sales and Mapping*; 3/1/2020-5/31/2020; \$4,000

Shilling, James; The Chicago Community Trust; *Applied research to support equitable homeownership strategies*; 4/30/2020-4/30/2021; \$80,000

Simonovich, Shannon; Sigma Theta Tau International Honor Society; *An Examination of Nursing Practice During COVID-19*; 6/15/2020-8/1/2021; \$2,500

Steiger, Russell; New York University; *NYU-AD social psychology research*; 9/1/2019-8/31/2020; \$30,000

Tirres, Christopher; Wabash Center for Teaching and Learning; *Religious Studies, Community Engagement, and Pedagogies of Transformation*; 9/1/2019-6/15/2021; \$30,000

Trujillo, Ester; Woodrow Wilson National Fellowship Foundation; *2020 Career Enhancement Fellowship for Junior Faculty*; 9/1/2020-2/28/2021; \$15,750

Tus, Cristina; U.S. Department of Education; *DePaul University Student Support Services*; 9/1/2019-8/31/2020; \$310,939

Wurtzebach, Charles; City Tech Collaborative; *Building Data Indicators to Support Community Engagement Around the Preservation of Community Assets*; 4/12/2019-4/11/2020; \$36,000

Wurtzebach, Charles; Elevated Chicago; *Knowledge Sharing Working Group Intern*; 8/1/2019-12/31/2019; \$5,000

Wurtzebach, Charles; Elevate Energy; *Elevate Energy 2-4 Building Market Research Support*; 4/4/2019-11/30/2019; \$5,500

Wurtzebach, Charles; The John D. and Catherine T. MacArthur Foundation; *Support IHS Applied Research and Technical Assistance Work*; 10/1/2019-9/30/2020; \$150,000

Wurtzebach, Charles; PNC Foundation; *Technical Assistance to Support Community Development Stakeholders*; 5/16/2019-5/31/2020; \$10,000

Wurtzebach, Charles; The Chicago Community Trust; *Preserving Home Ownership and Preventing Foreclosure*; 10/21/2019-4/20/2020; \$30,000

Wurtzebach, Charles; PNC Foundation; *Technical Assistance to Support Community Development Stakeholders*; 11/6/2019-10/31/2020; \$14,000

Wurtzebach, Charles; Polk Bros. Foundation; *Data Development and Technical Assistance to Support Anti-Displacement, Affordable Housing Preservation, and Equitable Community Development Strategies*; 1/1/2020-11/30/2020; \$40,000

Wurtzebach, Charles; Urban Land Institute of Chicago; *Unlocking ADUs in Chicago: Partnership with IHS for Data Analysis & Mapping*; 11/1/2019-4/30/2020; \$5,000

Wurtzebach, Charles; The Chicago Community Trust; *Providing Administrative Support to Elevated Chicago and Co-Chair Knowledge Sharing Working Group*; 5/1/2020-12/31/2020; \$15,000

Zeigler, John; Jumpstart for Young Children, Inc.; *Jumpstart 2020*; 9/1/2019-8/31/2020; \$75,685

Zeigler, John; Boeing; *Multi-Faith Veteran Initiative: Female Veteran's Wellness Pilot*; 1/1/2020-12/31/2021; \$50,000

Zeigler, John; Robert R. McCormick Foundation; *Multi-Faith Veteran Initiative*; 1/1/2020-8/31/2020; \$125,000

III. INTRAMURAL SUBMISSIONS AND AWARDS

ORS administers intramural grants awarded by the University Research Council (URC), Quality of Instruction Council (QIC), Public Service Council (PSC) and Academic Growth and Innovation Fund (AGIF). These grant programs are used to support the research, teaching, and service activities of faculty members across the University. Similar to Sections I and II, the number of proposals/ awards and the level of funding associated with them are used as the metrics in Section III.

SUMMARY

Intramural research funding is designed to support the individual scholar with an innovative idea in a traditionally underfunded area of research, or the scholar who needs monetary assistance in bringing a preliminary scholarly, instructional, or creative activity to fruition. DePaul University's Office of Research Services confers intramural awards through the three

Councils: URC, QIC, and PSC. Proposals submitted to the Councils are peer reviewed and recommended for award by the vote of Council Members. In FY 2020, the aforementioned Councils conferred 95 intramural awards totaling \$439,360.

Additional intramural funding is made available to DePaul academic units through the Academic Growth and Innovation Fund (AGIF), and the Undergraduate Research Assistant Program (URAP). AGIF grants are designed to support innovative ideas that will generate institutional revenue or fund other institutional priorities; while, URAP funds are provided as block grants to academic units in support of undergraduate research assistance.

The FY 2020 distribution of funds by the Councils, AGIF and URAP are detailed in the following subsections.

University Research Council

The URC supports the faculty's research, scholarship and creative activities through competitive grants and leaves. In addition to helping faculty maintain their intellectual vitality, the grants and leaves are intended as a stepping stone for securing external funding. URC received 108 proposals totaling \$516,558 in FY 2020; the Council conferred 74 awards totaling \$370,116.

Public Service Council

The PSC assists faculty in incorporating meaningful public service and service learning into DePaul University coursework. The Council currently supports grant programs for instruction and research as well as a series of annual faculty awards for service. The PSC received 4 proposals totaling \$15,000 in FY 2020. The Council funded all of the submissions.

Quality of Instruction Council

The QIC supports faculty efforts to enhance the curricular offerings of DePaul University. QIC received 24 proposals totaling \$86,833 in FY 2020. The Council conferred 17 awards totaling \$ 54,244.

COUNCIL SUPPORT

Table 3.1 details the total number of proposal submissions to the three Councils along with the total dollar value of funds requested. The number of awards conferred by each Council in FY 2020, and the aggregate dollars awarded are also detailed in Table 3.1. Similar to extramural funding, most Council intramural funding, an estimated 80% of funds awarded in FY 2020, were for projects supported by URC.

Table 3.2 details the aggregate number and dollar value of Council awards for the FY 2014 to FY 2020 period. The quantity and amount of intramural grants has increased substantially since FY 2014. During this time frame, the number of awards has increased by 33.8% and the volume of funds awarded has increased by 87.4%. These increases are likely due, in part, to an expansion in the breadth of grant programs offered through the Councils, including opportunities to secure course releases and

stipends. More recently however, between FY 2019 and FY 2020, funding awarded through the Councils contracted an estimated 16.4% from \$525.5K in FY 2019 to \$439.4K in FY 2020 as a result of a decline in indirect cost revenue from externally funded grants, which fund the Councils' grant programs.

Faculty from all ten of DePaul's colleges applied for and received intramural Council funding in FY 2020, with College of Science and Health (CSH) submitting close to 20% of proposals and receiving just over 26% of the awards (Table 3.3). The College of Liberal Arts and Social Sciences (LAS) and the College of Computing and Digital Media (CDM) followed with an estimated 23% and 20% of awards, respectively. Other units were each responsible for less than 10% of proposals submitted to the Councils; as expected given submission levels, each received less than 10% of Council conferred awards.

Table 3.1: FY 2020 Requests/ Awards by Council

Council	PROPOSALS				Award #	AWARDS		
	Proposal #	%	\$ Requested	%		%	\$ Awarded	%
PSC	4	2.94%	\$15,000	2%	4	4.21%	\$15,000	3%
QIC	24	17.65%	\$86,833	14%	17	17.90%	\$54,244	12%
URC	108	79.41%	\$516,558	84%	74	77.89%	\$370,116	84%
Total	136	100%	\$618,391	100%	95	100%	\$439,360	100%

Table 3.2: Total Intramural Council Funds Awarded, FY 2014-2020

FY	2014	2015	2016	2017	2018	2019	2020
Funds Awarded	\$234,500	\$377,500	\$475,900	\$424,000	\$660,462	\$525,540	\$439,360
Award Count	71	99	125	110	133	149	95

Technical Note: Funds Awarded values for 2014-2019 do not include funds associated with stipends and course releases for select faculty involved in grant projects, that are counted in the current FY totals.

Table 3.3: FY 2020 Council Funds Requested/Awarded by Unit

Unit	Proposal #	%	\$ Requested	%	Award #	%	\$ Awarded	%
BUS	8	5.88%	\$34,610	5.60%	5	5.26%	\$24,110	5.49%
CDM	29	21.32%	\$148,739	24.05%	19	20.00%	\$105,548	24.02%
CMN	13	9.56%	\$48,611	7.86%	7	7.37%	\$27,417	6.24%
CSH	27	19.58%	\$130,377	21.08%	25	26.32%	\$115,857	26.37%
EDU	8	5.88%	\$65,425	10.58%	5	5.26%	\$38,425	8.75%
LAS	36	26.47%	\$130,384	21.08%	22	23.15%	\$82,508	18.78%
LAW	1	0.74%	\$4,000	0.66%	1	1.05%	\$4,000	0.91%
MUS	3	2.21%	\$17,385	2.81%	2	2.11%	\$10,385	2.36%
SCPS	3	2.21%	\$11,650	1.88%	3	3.16%	\$11,650	2.65%
TTS	8	5.88%	\$27,210	4.40%	6	6.32%	\$19,460	4.43%
TOTAL	136	100%	\$618,391	100%	95	100%	\$439,360	100%

AGIF SUPPORT

The Academic Growth and Innovation Fund supports innovative academic ideas that will positively impact the University's revenue within the next 3 years. The term "idea", in reference to this Fund, was broadly conceived at time of program initiation, to allow applicants maximum latitude in program conception and stage of project implementation. In FY 2020 AGIF also supported several research projects that contributed to understanding the science of COVID-19 or its health equity and social justice dimensions. Overall, in FY 2020 the Fund directly supported 19 projects with awards totaling

\$856,703 in Table 3.4. Noteworthy, some AGIF initiatives receive multi-year support and/ or institutional support from sources beyond this Fund that are not recorded in this table.

URAP SUPPORT

The University's Undergraduate Research Assistant Program, which offers students a unique opportunity to work with a faculty member, or group of faculty, on the planning and implementation of a research project through block grants to DePaul academic units, continued in FY 2020, with the program providing a total of

Table 3.4. FY 2020 AGIF Funds Awarded by Unit

Unit	Award #	%	\$ Awarded	%
BUS	0	0%	\$0	0%
CDM	7	36.84%	\$254,079	29.66%
CMN	2	10.53%	\$98,900	11.54%
CSH	3	15.79%	\$362,963	42.36%
EDU	1	5.26%	\$45,799	5.35%
LAS	5	26.32%	\$85,462	9.98%
LAW	0	0%	\$0	0%
MUS	0	0%	\$0	0%
SCPS	0	0%	\$0	0%
TTS	1	5.26%	\$9,500	1.11%
TOTAL	19	100%	\$856,703	100%

146 units of student support. Nine of the University's ten colleges participated in the URAP program in FY 2020. The URAP program enhances participating students' overall academic experience at DePaul, by providing them with opportunities to collaborate with faculty members who conduct research, or other scholarly/creative activities, in disciplinary areas of their choosing. Similarly, it provides our faculty with the benefits of compensated research assistance in support of their scholarly endeavors. The URAP program

experience can prove to be an important asset to students embarking on careers that demand research experience and/ or project management skills or supply an important breadth of knowledge to those who chose to pursue graduate or professional studies. The distribution of FY 2020 URAP units and associated funding, by academic unit, is detailed below in Table 3.5.

Table 3.5 FY 2020 URAP Funds Awarded by Unit

Unit	# Units	%	\$ Awarded	%
College of Business	27	18.49%	\$28,350	18.49%
College of Communication	10	6.85%	\$10,500	6.85%
College of Computing & Digital Media	29	19.86%	\$30,450	19.86%
College of Education	7	4.79%	\$7,350	4.79%
College of Law	0	0%	\$0	0%
College of Liberal Arts & Social Sciences	30	20.55%	\$31,500	20.55%
College of Science & Health	35	23.97%	\$36,750	23.97%
School for Continuing & Professional Studies	3	2.06%	\$3,150	2.06%
School of Music	2	1.37%	\$2,100	1.37%
The Theatre School	3	2.06%	\$3,150	2.06%
TOTAL	146	100%	\$153,300	100%

Technical Note: One Unit represents 75 student hours at \$14/hour.

INDIVIDUAL AWARD LISTINGS

Intramural Awards

Academic Growth and Innovation Fund Awards

Booth, Paul; *The Virtual and Augmented Reality Communication Lab*; \$78,400

Bronstein, Carolyn; *The DePaul Communication Graduate Student Experience: A Series of College of Communication Student Recruitment Films for Prospective Graduate Students*; \$20,500

Fluty, Kristina; *The Theatre School Certificate in Theatrical Intimacy (CTI)*; \$9,500

Godage, Isuru; *Smart Wearable System for Bilateral Upper-Extremity Stroke Rehabilitation*; \$49,717

Hague, Euan; *COVID-19 and Health Disparities in Chicago: Evaluating the Impact of Socioecological Risk on the Health Outcomes of Vulnerable Populations*; \$25,000

Jason, Leonard; *Prospective Study of Young Adults during a COVID-19 Epidemic*; \$25,000

Kiel, Donna; *Catholic School Outreach and Resource (COR) Program*; \$45,799

Mazzeo, John; *MPH Program Membership to the Association of Schools and Programs of Public Health*; \$25,000

Mobasher, Bamshad; *Using Machine Learning to Battle the Infodemic of Misinformation in the Age of COVID-19*; \$24,834

Montague, Enid; *Inclusive Human Centered Automation of Health Systems to Improve Patient Access, Patient Safety, and Reduce Physician Burnout*; \$25,000

Montgomery, James; *The "Rising STEM Scholars Program": Increasing Tuition Revenue via Retention of Underrepresented Minority, First-generation, and Transfer STEM Majors by Early Interventions*; \$316,463

Novak, Gary; *Marketing the Los Angeles Based MFA in Creative Producing*; \$60,000

Rasin, Alexander; *Interactive and Integrated Radiological Image Search (IRIS)*; \$23,179

Reyna, Christine; *Existential Threat, Status Quo Disruption and Support for Authoritarianism during a Deadly Pandemic*; \$21,500

Ramaraj, Thiruvarangan; *Computational Biology and Applied Bioinformatics (CoBaAB) Lab*; \$29,901

Roberts, Scott; *Performance and Animation Collaboration through Media Capture*; \$41,448

Schlesinger, Traci; *Shifting Carceral Policy and COVID-19 in Carceral Settings*; \$8,182

Torres, Lourdes; *Professional Development in Identity, Intersectionality, and Social Justice*; \$6,200

Tzoumis, Kelly; *Reaching out to an Underrepresented Student: The Disabled Student*; \$21,080

Public Service Council Awards

Elliott, Timothy; *DePaul and TCEP College Admission Essay Tutoring Program: Year 2*; \$3,500

Jensen, Jaclyn; *Training HR Professionals on Managing the "Weight" of Workplace Mistreatment*; \$3,500

Lippert, Julia; *Lead Health Initiative: Education, Testing, and Workshops*; \$3,500

Michel, Rebecca; *Preparing the Next Generation of School Counselors to be Advocates for Social Justice*; \$4,500

Quality of Instruction Council Awards

Akiyoshi, Shiro; *Design and Culture in Japan*; \$3,500

Booth, Paul; *MCS 352: Board Games as Media*; \$3,500

Brucher, Katherine; *Re-envisioning the Music Core*; \$6,885*

Bullard, Dexter; *Research and Development of a Proposal to Convert The Theatre School's MFA Acting Program from a Three-Year Sequence to a Two-Year Sequence*; \$3,500

Burton, John; *London and Dublin Short-Term Study Abroad*; \$3,500

Bystriansky, Jason; *Development of a new Study Abroad Program in Marine Biology*; \$3,500

Egleston, Patrice; *Action on Film: Staged Violence and Motion Capture Course - Collaboration between The Theatre School*; \$3,325

Hibbard, Scott; *APD 200 Diplomacy – Its Past and Present*; \$4,000

Johnson, Valerie; *Identities Abroad South Africa: Race, Ethnicity, & Housing*; \$2,169

Kahn, Lin; *December Intersession Teaching Enhancement Project*; \$375

Martinez, Susanna; *Identities@Mexico: Immigration and Human Rights*; \$3,500

McGury, Susan; *The SCPS Toolkit: "Just in Time" Writing Support for Adult Learners*; \$5,000

Studham, Susan; *Study Abroad Summer 2020: Balinese Arts and Culture, Pre-Program Planning*; \$3,500

Whitelaw, Jennifer; *Development of New First-Year Spanish Courses*; \$1,500

Workman, Margaret; *Incorporating Service Learning into a Global Learning Experience (GLE) Course*; \$1,490

Zecker, Liliana; *Teacher Education: From Face-to-Face to Online Pedagogy*; \$3,500

Zelenak, Lee; *Scouting Trip for Critical Foundations in Modern Design*; \$1,500

University Research Council Awards

Aguirre, Windsor; *Genomic Barcoding of Neotropical Fishes Using Minion Third-Generation Sequencing*; \$3,500

Aguirre, Windsor; *Request for the Purchase of a Specialized Computer for Processing of Micro-CT Scanning Data*; \$3,500

Altay, Nezih; *Implications of Information Dissemination in Humanitarian Relief Efforts at Refugee Camps*; \$2,780

Aroutiunian, Gagik; *Labyrinths of Memory and Monument*; \$3,500

Bell, Margaret; *Grant Writing to Support Research on Effects of an Environmental Contaminant*; Course Release**

Bell, Margaret; *Microglial Mechanisms of PCB Effects on Adolescent Affect and Alcohol Responses*; \$3,500

Bell, Margaret; *Research on Effects of PCBs on Microglial Responses to Immune Challenge*; \$7,500*

Brooke, Joanna; *Isolation of Phages against S. Maltophilia*; \$3,500

Brooke, Joanna; *Phage Stability and Activity against S. Maltophilia*; \$7,492*

Brown, Eli; *Bringing Analysis to the Analysts: Table-Oriented Interactive Machine Learning*; Course Release**

Bryant, Leah; *Family Distancing Due to Political Differences*; \$6,369

Buscemi, Joanna; *Identifying Predictors of National School Lunch Program Participation in Chicago Public High Schools*; \$7,500*

Bystriansky, Jason; *Are Sea Urchins that Inhabit Tidepools Adapted to Fluctuating CO₂ and pH*; \$3,489

Chu, Shu-Chuan; *Understanding Advertising Client-Agency Relationships in Asia*; \$3,500

Claussen, Diane; *Women Leaders & the #MeToo Movement: Gender Progress in Leadership and Sexism in the American Theatre*; \$5,260*

Cole, Timothy; *Loving Conflict in Marital Relationships: An Approach Motivation Conflict Intervention*; \$3,500

Conary, Jennifer; *Understanding Advertising Client-Agency Relationships in Asia*; \$3,500

Conkin, Hilary; *Cultivating Empathic Listening in Democratic Education*; \$3,500

Cudaback, Eiron; *APOE and the Differential Activation of Non-conical NALP3 Inflammasome Pathways*; \$3,500

Delancey, Mark; *Arts Council of the African Studies Association 18th Triennial Symposium*; \$4,000

DeMaio, Fernando; *Unequal Cities: Racial Disparities in Mortality in the United States*; \$7,000*

Erete, Sheena; *Cultivating a Smart Equity-Driven Policymaking Infrastructure to Improve Youth Learning Opportunities*; Course Release**

Flores, Michael; *The Killing of David (docuseries)*; \$3,500

Godage, Isuru; *Synthesize and Validate Locomotion Gaits for Soft Robotic Snakes*; \$6,844*

Greeson, Megan; *External Factors Influencing Collaboration between Nurses and Rape Victim Advocates*; \$7,403*

Greeson, Megan; *Influence of Role Understanding, Training, and Power Dynamics on Nurse and Advocacy Collaboration*; \$3,500

Hancock, Blackhawk; *22nd Annual Chicago Ethnography Conference: "Culture, Politics, and Education in the Trump Era"*; \$4,000

Hastings, Peter; *Reducing Foreign Language Anxiety Using an E-Learning System*; \$3,000

Heffernan, Megan; *Making the Miscellany: Poetry, Print, and the History of the Book in Early Modern England*; \$2,188

Jensen, Jaclyn; *Using Twitter to Explore Workplace Weight-Based Mistreatment*; \$10,630*

Jin, Li; *Chicago Language Symposium 2020*; \$1,981

Jin, Li; *Chinese and Japanese Language and Studies Symposium*; \$4,000

Kanj, Iyad; *Clustering Incomplete Data*; \$2,500

Kanj, Iyad; *Painting 3-D Objects with Continuum Arms*; \$7,460*

Kersel, Morag; *Hidden Histories: The Insecure Provenance of Levantine Neolithic Masks*; \$3,500

Kessentini, Wael; *Adding New Features to Existing Software Programs*; \$3,500

Kimble, Sara; *Women against Genocide: Transnational Political and Legal Protests of Nazi Wartime Brutality*; \$3,150

Kipp, Jingjing; *Role of Vitamin A in the Prevention of Ovarian Pathologies in MT- α Transgenic Mice*; \$3,500

Kirkland, Sean; *Ancient Philosophy Society Annual Conference--Xenia and the Xenos*; \$4,000

Koehn, Daryl; *The Great Unmooring: Why Moral Dilemmas Are Undermining Choice and Destroying Virtue*; \$5,200*

LaMontagne, Jalene; *National Science Foundation: Long Term Ecological Research (LTER)-New Urban Site Proposal Support*; Course Release**

LaMontagne, Jalene; *Tree Cavity Availability Linked to Emerald Ash Borer Activity in the Chicagoland Area*; \$3,500

Larva, Jessica; *A Microcosm of Perception*; \$3,500

Lemmon, Grace; *Identifying the Attributions and Costs of Weight-Based Mistreatment at Work*; \$3,500

Makagon, Daniel; *Seeing through Photozines*; \$3,048

Martin, Jason; *Access, Ethics, Transparency: Comparative Analysis of Data Journalism Practices around the World*; \$3,500

McEwan, Breanna; *11th International Conference on Social Media & Society: Promises and Perils of Social Media*; \$4,000

McMahon, Susan; *Assessing South African Teachers: Experiences with Violence through Focus Groups*; \$7,500*

Michel, Rebecca; *The Career Success Program (CSP): Responding to Unprecedented Job Insecurity and Loss*; \$7,500*

Mobasher, Bamshad; *Power of the Few: Analyzing the Impact of Influential Users in Collaborative Recommender Systems*; \$7,500*

Montague, Enid; *Using Participatory Design to Identify Sociotechnical, Cognitive and Design Needs for Cannabis Medication Management for Patients*; \$28,000*

Nass, Michael; *DeLillo Nations: Life, Death, and the Afterlife in America*; \$3,500

Netzer, Osnat; *Composition and Musicianship*; \$3,500

Opitz, Donald; *Size Matters in Flora and Florilegia*; \$3,500

Ostrander, Richard; *Capacity Building through Empowerment Evaluation with the Chicago Torture Justice Center*; \$7,480*

Park-Johnson, Sung; *The Impact of Heritage Language Education on Minority Language Speakers*; \$11,000*

Putnam, Cynthia; *Advancing Child-Computer Interaction: Mobile-based Interaction Design and User Testing*; Course Release**

Putnam, Cynthia; *Promoting Children as Critical Users and Creators of Technologies: Adapting and Expanding Pilot Work*; \$3,500

Quinn, Kimberly; *Ideological Bias in the Social Sciences: An Adversarial Collaboration*; \$7,488*

Ramanath, Ramya; *Developing Affordable Housing: How For-profit Developers See It*; \$3,500

Rana, Anuradha; *Language of Opportunity*; \$7,500*

Rogers, John; *Seeing the Phylogenetic Forest AND the Trees*; \$1,600

Salusky, Ida; *The Role of Identity and Supportive Social Networks in College Persistence for Undocumented First-Generation Students*; \$7,496*

Sanchez, Bernadette; *The Role of Natural Mentors in the Educational Journey of Undocumented Latinx Immigrant Youth*; \$7,460*

Settle, Tanya; *Investigating Debugging by Novice Programmers*; \$3,500

Sharevski, Filipo; *Election Interference beyond Social Media Trolling: A Field Study*; \$5,000

Sparkes, Timothy; *Parasites and Animal Personalities*; \$4,980*

Tirres, Allison; *Chicago Immigration Summit*; \$4,000

Tran, Susan; *Systematic Review of Participant Diversity in Psychological Therapies for Chronic Pain*; \$7,500*

Wang, Tawei; *Disaster Response Ambidexterity: Managing Risk While Creating Values*; \$3,700

Wolfe, Rosalee; *Collaboration with Sign Language Research Centers in the E.U.*; \$2,000

Workman, Erin; *A Multi-perspectival View of Writing at DePaul*; \$3,490

Worthman, Christopher; *Adolescents Reading the Word and the World: Writing Powerful Middle Grade Literature*; \$8,425*

Zenchelsky, Robert; *OTTO*; \$3,500

Technical Notes:

*This dollar amount includes one or more stipend payments to faculty involved in the grant project in addition to the awarded grant budget.

**The Course Release was funded as part of the URC Competitive Course Release Program.

IV. RESEARCH PROTECTIONS

The Research Protections section summarizes the activities of the Research Protections area of ORS. The activities of the Research Protections unit are best measured by understanding the number of protocols that are submitted to the committees overseen by this unit, therefore, the metric of submissions is used to report on Research Protections activities throughout Section IV.

SUMMARY

The Research Protections unit of the Office of Research Services at DePaul University consolidates several ancillary services that directly impact the conduct of research at the University. ORS' Protections unit services include administration of three federally mandated review committees: the Institutional Review Board, the Institutional Biosafety Committee, and the Institutional Animal Care and Use Committee. In collaboration with these committees, ORS monitors compliance with protections-related federal, state, and local regulatory requirements. In FY 2020, the Committees reviewed, in aggregate, 698 submissions. At FY 2020 close, the three Committees were actively managing a total of 633 protocols.

INSTITUTIONAL REVIEW BOARD

DePaul's Institutional Review Board (IRB) is a university-wide committee charged with overseeing all research activities involving human subjects conducted by DePaul faculty, staff, and students. The IRB is made up of DePaul faculty and staff from various colleges, schools, and departments, as well as local community representatives. IRB submissions by Type are summarized in Table 4.1.

INSTITUTIONAL BIOSAFETY COMMITTEE

The Institutional Biosafety Committee (IBC) oversees the usage of biohazards materials in research and teaching. The IBC is a federally mandated oversight committee that ensures the safe acquisition, usage, and disposal of all biohazardous agents at the university. IBC Submissions by Type are categorized in Table 4.2.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

The Institutional Animal Care and Use Committee (IACUC) oversees the usage of animals in research and teaching activities. The IACUC is a federally mandated oversight committee that reviews all proposals for the use of live vertebrate animals. IACUC Submissions are detailed in Table 4.3.

Table 4.1: IRB Submissions by Type

Type	Total	Exempt	Expedited	Full
New Projects	197	130	66	1
Amendments	227	75	147	5
Continuing Review	78	0	76	2
Final Report	55			
Adverse Event/Incident	7			
Non-Compliance	4			
IAA/IIA	26			
Non-Reviewable Determinations	23			

Table 4.2: IBC Submissions by Type

Type	Total	Initial	Amendment	Renewal
Full Committee Review (FCR)	14	12	2	0
Designated Member Review (DMR)	14	0	1	13
Exempt – Chair Confirmation	10			
Administrative Review (AR)	12			

Table 4.3: IACUC Submissions by Type

Type	Total	Initial	Amendment	Renewal
Designated Member Review (DMR)	14	0	5	9
Full Committee Review (FCR)	9	0	6	3
Administrative Review (AR)	8			
Veterinary Verification & Consultation Process (VVC)	0			
Memorandum of Understanding	0			

RESEARCH PROTECTIONS SUBMISSIONS BY UNIT

As might be expected, the focus of the activity of the three oversight committees is the College of Science and Health (CSH). In FY 2020, approximately 51.8% of research protections submissions came from faculty, staff, and students in the College of Science

and Health (Table 4.4). Modest groupings of IRB activity were also concentrated in the Colleges of Business, Communication, Computing and Digital Media, Education, and Liberal Arts and Social Sciences.

Table 4.4: FY 2020 Research Protections Submissions by Unit

Unit	IRB	IBC	IACUC	Total
College of Business	44	0	0	44
College of Communication	28	0	0	28
College of Computing & Digital Media	63	0	0	63
College of Education	63	0	0	63
College of Law	0	0	0	0
College of Liberal Arts & Social Sciences	81	0	0	81
College of Science & Health	276	50	31	357
School for Continuing & Professional Studies	2	0	0	2
School of Music	2	0	0	2
The Theatre School	0	0	0	0
Administrative Units	5	0	0	5
Other	53	0	0	53
TOTAL	617	50	31	698

V. STAFF AND COMMITTEES

In this section, ORS acknowledges the contributions of staff and committee members who formally contributed to sponsored and creative activities of the institution this fiscal year. In addition to these named faculty and staff, we also benefit from the counsel of deans, chairs, and administrative units at the University too numerous to name here; each has enhanced our activities and ensured a high level of service to both applicants and recipients of sponsored project funding.

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Daniela Stan Raicu

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ORS Staff

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Salma Ghanem, Chair
Robert Karpinski
Alyssa Kupka
Ruben Parra
Daniela Stan Raicu
Lucy Rinehart

Faculty Council Committee on Research Policy

Coya Paz Brownrigg
Peg Birmingham
Emily Cauble

Hilary Conklin
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David George, Vice Chair
Justin Maresh, Chair
Nicolette Zielinski-Mozny
Alternates:
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Emily Opalski
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Sarah Connolly
Jaimie Engle
Caleb McMahan
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