

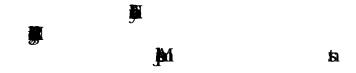


University of Alaska Fairbanks Undergraduate Research and Scholarly Activity (URSA) Annual Report AY 2015-16

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- 1. Provide funding for undergraduate students and faculty who collaborate on research and creative projects;
- Serve as a clearinghouse for projects that offer undergraduate students and faculty opportunities to collaborate in research or creative projects;
- 3. Assist UAF faculty and staff who strive to create or maintain undergraduate research and creative scholarly programs;
- 4. Create regular events that serve as venues for students to present their research and creative projects;
- 5. Catalog and archive UAF undergraduate student participation in research and creative projects, as well as the outcomes and products of those projects; and
- Facilitate undergraduate student recruitment and retention initiatives through programspecific initiatives.

Through the aforementioned programs and initiatives, URSA aims to improve skills in critical thinking, creative problem solving, and communication and to engender a culture of life-long learning among all uwwfgpvu."cu" y gm"cu"gp j cpeg" r tgrctcvkqp"cp f"g fwecvkqp"qh"wp fgt i tc fwcvg"uwwfgpvu" y j q" y km" ł m"v j g"pgg fu" of Alaska's 21st century workforce and society. URSA is UAF's resource for the development and promotion of experiential learning activities that engage undergraduate students in support of UAF's goal to become a leading student-oriented research university. In this age of ever-increasing information and access to that information, research literacy is a required competence for the entire populace, not just UAF students. Thus, offering opportunities for undergraduate students to participate in research and creative scholarship is a noted best practice in higher education. Building on existing efforts and capacities, URSA attracts, retains, and enables UAF students to pursue varying levels of research and scholarly activity gpicigogy"htqo"ukping"etgfkv"ł tuv/{gct"gzrgtkgpeg"ugokpctu"vq"kpfgrgpfgpv"uwwf{"kpxguvkicvkqpu"vq"ugpkqt theses including scholarly exhibits, performances, or research endeavors.



- 1. URSA Administration
 - a. Trent Sutton, UAFFisheries Department became 18% URSA Director effective 01 July 2016, following the departure of BarbaTraylor, URSA Codirector in June 2016.
 - b. Kate Pendleton continues to serve as thetificalle URSA Coordinator,
 - c. The URSA Advisory Board was expanded to include the following UAF faculty: Wendy

3. Clearinghouse for Undergraduate Student Opportunities

- a. URSA continues to serve as UAFÕs clearinghouse for undergraduate student opportunities to engage in unique projects conducting research or creative scholarly activities. However, the process is informal (reliant on passive communication) and thus quantifying URSAÕs role as clearinghouse or studefatculty matchmaker is difficult because URSA is not a student program; rather, URSA is an embodiment of UAFÕs institutional support for undergraduate studeft and faculty collaboration in research and creative projects.
- b. Sixty-three UAF students enrolled in FY(Eirst-Year Experience)URSA, and MRAP (Museum Research Apprenticeship Program)rses during AY20156 (see 5. Curriculum Development below).
- c. Fifty-three UAF students received URSA funding in support of research or creative scholarship during the fall, spring, and summer of AY2065 and another 95 tudents applied but did not receiving. Some of these students may have been matched with their project either directly by URSA or indirectly through RSAOs request for proposals. I addition, walkin students seeking advice with respect to identifying research opportunities and/or mentors are frequent in the URSA office (weekly at a minimum and total weeks at the beginning of a semester and around an URSA application deadline date). URSA has not tracked or followed up with these ad hoc advisees because they do not all apply for funding and, as a result, are not entered into the database.

4. Student Tracking and Project Cataloging

- a. The URSA database currently has 1,601 UAF undergraduates that have been involved in research since the URSA database was created in 2012.
- b. The 20132014 UAF accreditation repostated that 41% of UAF undgraduate students have participated in an academic research experience over the course of their baccalaureate studies. Further, the 1,601 students in the URSA database support that quantification of undergraduate student participation in research. Induided in the accreditation documents and not yet included in the URSA database are undergraduate students who are employed as research assistants. URSA has been working with UAF Human Resources and the UAF Office of Planning, Analysis, and Institution becauch (PAIR) to identify a means to include such students in the database.
- c. An online version of UAF Research Day has been created within the Institutional Repository, which is a joint effort of URSA and Library Sciences Staff. https://scholarwoalskaaledu/.
- d. Gary Hagestead in the Office of PAIR continues to work on streamlining the process of populating the URSA database to allow for more detailed and comprehensive tracking and reporting of undergraduate student research and creative schadiavities URSA has been working with the various UAF Deans to identify reseafactused undergraduate courses in their respective academic programs to generate more accurate and comprehensive data on t involvement of UAF undergraduates in research.

5. Curriculum Development

- a. URSA (Undergraduate Research and Scholarly Activity) courses offered in A-1/2015
 - i. URSA 192 Introduction to Research and Scholarly Activity at UAF (Instructor: Barbara Taylor; Enrollment: 3 students)
 - ii. URSA 195 Introduction to One Hiera (Instructor: Lori Gildehaus; Enrollment: 6 students)

iii. URSA 295 BLaST Bootcamp (I

b. Research Day

- i. The UAF Research Day was held on 26 April 2016; a total of 142 **Whate** rgraduate students presented at the event.
- ii. DeanÕs Choice Awards (\$250 per school/college) were given for each college or school; the awardees and their poster title for each college/school were as follows:
 - a. College of Engineering and Mines (CEM)Aven Bross and Max Hessknoll (Simultaneous localization and mapping [SLAM] on RobotMoose robotics infrastructure)
 - b. College of Liberal Arts (CLADJessica Oberniller (The headscarf projectxpeosing

as active resources to develop and enhance current and future opportunities and initiatives as well as provide direction for the URSA mission. The current structure is that one group of facustives with general planning (the URSA Advisory Board) and a separate group of faculty (and some staff and student members) reviews student and faculty mentor applications (the URSA Review Panel). However, members of both groups may provide feedback on the peration of URSA as well as bring forward new ideas, initiatives, and concerns related to the URSA mission. In terms of the specific structure and primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the beautiful primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the provide direction for the URSA mission. In terms of the specific structure and primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the provided primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the provided primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the provided primary responsibilities of these two groups, we have the following: (1) the Advisory Board consists that the provided primary responsibilities of the provided primary res

Table 1. The number of URSA applications (student project, student travel, mentandrig E combined), awards, and awarded dollars for each cottletge of for AY20152016. The dollar amount awarded also includes awards to students for Research Day poster presentations.

Table 2. The number of URSA applications (Apps), awards, total dollar amount awarded (Dollar Amt.) to all amount awarded by award type

Table 3. The number of URSA applitions (AP), awards (Aw), andtbllar amount (DA) for each college/school by awards type for AY2016.

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	A	Av	120	A	Av	E)	A	Av	ZQ.	A	Av	P)	A	Av	P
CEI	M 4	0	\$0	17	2	\$4,000	5	3	\$14,930	3	0	\$0	7	2	\$250
CL	A 12	6	\$13.210	13	5	\$9.925									