

Office of Research Development and Administration Award Report, October 2017

\$2,595,522 Jessica Alexander, Academic Services Community Mental Health Partnership of Southeast Michigan (\$73,647) Substance Use Disorder Prevention Programs: Communities That Care of Ypsilanti (CTCY) focuses on the 48197 and 48198 zip codes using the Communities That Care (CTC) prevention process to address the community's issues. Over the past six years CTCY has built a community coalition that collects data and uses that data to drive the selection of tested and effective programs. CTC guides communities through a proven five-phase change process. Using evidence-based prevention science, CTC promotes healthy youth development, improves youth outcomes, and reduces problem behavior through this prevention process. Many communities using the CTC process see dramatic reductions in levels of youth alcohol and tobacco use and crime and violence. Leslie Atzmon and Ryan Malloy, Fine Arts Sappi (\$31,550) A Community Arts Hub for Ypsilanti Michigan Riverside Arts Center/FLY Creativity Lab Identity and Toolkit: Ypsilanti is a distressed city, but it is becoming a hub for vibrant experimental work in the arts. Architects, artists, and designers have begun to settle into the city, creating a dynamic new arts scene while also reaching out to those in the community. Riverside Art Center and FLY Creativity Labs are working together to galvanize this trend. For this project, Ryan Malloy, Leslie Atzmon, and a group of graphic design students at Eastern Michigan University's School of Art & Design, will work with RAC and FLY to develop an identity system for Riverside Arts Center/FLY Creativity Lab and a FLY Creativity Lab Toolkit for local young people and their families. The toolkit will be geared to elementary and middle school students, but will include thought-provoking activities for all ages. The identity system will include logos, letterhead, business cards, environmental graphics, website, stickers for laptops, building signage, street-side banners, invitation and press release form for April 2018 launch party, fundraising materials/informational brochure, and styles manual with recommendations for the application and use of the brand, including the creation of future promotional material. The purpose of this new branding is to position RAC and FLY as a welcoming community resource, and to relay RAC and FLY's goals for collective advancement through art and design. Maurice Henderson, College of Technology, Deans Office Michigan Department of Education (\$60,000) Michigan Business Professionals of America: Competitive renewal for continuing support for Business Professionals of America (BPA)-Michigan Association. The purpose of the project is to sustain and advance BPA as a vital component of the Business Services and Technology curriculum and to fulfill the mission of the Career and Technical Education and Leadership organizations in Michigan. Kasim Korkmaz, School of Visual Built Environment Nexus Gas Transmission, LLC (\$50,000) Equipment for Construction Safety: Equipment for the construction lab will be purchased as well as the development of training curriculum on construction safety. Lynn Malinoff, Study Children and Family Michigan Department of Education (\$675,000) 21st CCLC Cohort J Year 2017-2018 Bright Future: For 10 years, Eastern Michigan University Bright Futures (EMUBF) has developed a strong culture of best practices including positive youth development (youth voice, choice, and engagement), embedded academics, social emotional learning (SEL), and family engagement. Students will receive targeted academic support, and experience project-based clubs resulting in new experiences, career exploration, learned academic content, and skills to transition to the next level. Community partners, university students, and experts will facilitate clubs in technology, music, martial arts, theater, art, and leadership. EMU partners include the College of Education, Social Work, Communication and Theater Arts, Academic Service Learning, Leadership and Counseling, biology, and world languages. UM partners include the Kinesiology and French departments, School of Education, and College of Pharmacy. Two Ypsilanti Community Schools (Ypsilanti Community Middle School and Ford Early Learning Center) and three Wayne Westland Community Schools (Hicks, Schweitzer, and Taft-Galloway) are the focus of this Bright Futures project. Lynn Malinoff, Study Children and Family Michigan Department of Education (\$675,000) 21st CCLC Cohort 1-Two Bright Futures: Three Bright Futures programs will serve students in Wayne Westland Community Schools (Franklin Middle School and Hoover and Marshall Upper Elementary Schools) and four Bright Futures programs will serve students in Ypsilanti Community Schools (Perry Early Learning Center and Ypsilanti Community High School). There are limited after school opportunities in these schools making them ripe for 21CCLC programs. Students will participate in daily academic activities, mentoring, service-learning and a rotating menu of clubs and activities focused on cultural arts and technology, supported by many collaborators. University partners include Eastern Michigan University College of Education, Communication and Theater Arts, Academic Service-Learning, and Counseling and Leadership, and the UM School of Education. Clubs will integrate writing skills, youth development, and

skills for a successful transition from elementary to middle school and middle to high school. Lynn Malinoff, Study Children and Family Michigan Department of Education (\$675,000) 21st CCLC Cohort I - One Bright Futures: One Bright Futures program will serve students in Wayne Westland Community Schools (Wayne Memorial High School) and four Bright Futures programs will serve students in Ypsilanti Community Schools (Estabrook, Erickson, Adams, and Holmes Elementary Schools). There are limited after school opportunities in these schools making them ripe for 21CCLC programs. Students will participate in daily academic activities, mentoring, service-learning and a rotating menu of clubs and activities focused on cultural arts and technology, supported by many collaborators. University partners include Eastern Michigan University College of Education, Communication and Theater Arts, Academic Service-Learning, Leadership and Counseling, and the UM School of Education. Clubs will integrate writing skills, youth development, and skills for a successful transition from elementary to middle school and middle to high school. Steve McGregor, School of Health Promotion and Human Performance The US Hockey Foundation (\$41,680) Leveraging technology to address player safety and enhance player development in US ice hockey: In order to promote continued growth of ice hockey in the United States, it is important to address issues of player safety. Recent advances in technology allow for detailed, accurate identification of on-ice contact events. Therefore, technology can be used to improve the current state of knowledge regarding contact-related injuries in ice hockey. Aside from player safety, player development is another important component of the continued growth of hockey. Again, recent advances in technology allow for the accurate assessment of on-ice player performance in ways that were previously unattainable. Enhanced player development will contribute to the success across all levels of USA Hockey that will add to continued growth of the sport. In broad terms, the objectives of this project will be two-fold; to leverage technology to i) address issues of player safety, specifically related to contact in both checking and non-checking environments, and ii) to develop enhanced understanding of player assessment and development that can contribute to improved coaching approaches at all levels of USA Hockey from youth to elite levels of the sport. David Wait, College of Technology, Deans Office Michigan Department of Education (\$44,000) Michigan Family, Community, and Career Leaders of America (FCCLA): Non-competitive renewal to be the host for the statewide Michigan Family, Career, & Community Leaders of America. This program provides state leadership to local FCCLA programs, providing students and teachers with activities and programs that promote personal growth and development through family and consumer sciences education. David Wait, College of Technology, Deans Office Michigan Department of Education (\$60,000) Michigan DECA: Competitive renewal to administer the statewide management and leadership of the secondary Michigan DECA Career and Technical Student Organization. The purpose of the Michigan DECA is to sustain and advance career and leadership organization as a vital component of the vocational marketing education curriculum and to fulfill the mission of the career education and leadership organizations in Michigan. David Wait, College of Technology, Deans Office Michigan Department of Education (\$60,000) Michigan Skills USA: Competitive application to continue operating the Michigan office for Skills USA. The purpose of Skills USA is to provide high school students and their teachers with activities and programs that motivate students and that develop students leadership, individual, social, teamwork, decision making, problem solving, and technical skills as it relates to various trade and industrial career paths that students may pursue in secondary education. Tsu-Yin Wu, School of Nursing Michigan Department of Health and Human Services (\$50,000) A Culturally-Sensitive Linguistically-Appropriate Intervention for Outreach and Increase CRC Screening Among Asian Americans in Michigan - 2018: Asian Americans colorectal cancer (CRC) screening rates are lower compared with the rates for non-Latino whites. To increase CRC screening in this underserved Asian population, intervention strategies need to address language, socio-cultural, and structural barriers to CRC screening and help immigrants understand the importance of obtaining and maintaining screening. The objective of this project proposed by Healthy Asian Americans Project (HAAP) is to reduce health disparities related to colorectal cancer screening experienced by uninsured Asian Americans in Michigan. Specific aims are to utilize evidence-based strategies and implement a culturally and linguistically appropriate program to refer eligible Asian Americans to Michigan CRC Early Detection Program (MCRCEDP) screening sites in metro Detroit areas and Grand Rapids. Tsu-Yin Wu, School of Nursing Midwest Asian Health Association (\$99,645) Cooperative Agreement to Support Navigators in Federally-Facilitated and State Partnership Marketplaces: The Health Asian Americans Project will target Asian Americans and Asian immigrants by providing assistance during the enrollment process for healthcare benefits. This will promote health equity and improve health outcomes for racial and ethnic minority populations by expanding the affordability and accessibility to healthcare coverage.

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\$286,568 Munther Abualkibash, Information Security and Applied Computing Microsoft (\$5,000) Microsoft Azure Research Award: Object detection using supervised learning often requires extensive training, resulting in high execution times. If the system requires retraining to accommodate a missed detection then waiting several hours before the system is ready may not be acceptable in practical implementations. This research is to improve the result of previous research by running the object detection framework on the cloud where the system can efficiently adapt to misclassified data and be retrained within a few seconds instead of few minutes. Improvements can be made to the framework by accelerating the framework computation process where it can be adjusted to work directly in the cloud rather than using local workstations to handle applications. Jessica Alexander, Office of Academic Service Learning Ford Community Corps (\$8,798) 826Michigan: Educational Psychology (College of Education) & 826Michigan partnered to provide a meaningful field experience for students exploring teaching as a career. 826Michigan is a nonprofit serving students in Ann Arbor, Ypsilanti and Detroit that inspires school-age students to write confidently. Educational Psychology students are required to complete 20 hours of tutoring high-needs students in Ypsilanti or Detroit. Jessica Alexander, Office of Academic Service Learning Ford Community Corps (\$11,203) Alternatives for Girls: Alternatives for Girls, and Applied Drama and Theater for the Young. Graduate students will collaborate to develop drama/theatre work as a means for selfempowerment and exploration. Elise Buggs, Academic Partnerships Michigan Department of Health & Human Services (\$66,895 of a total award of \$133,738) Magic - Independent Skills for Living: The program provides independent living services to eligible youth. The services are coordinated with other relevant federal and state programs and include assistance with housing, employment, education, budgeting/financial management, identifying/maintaining appropriate relationships, career planning, parenting, medical/dental health, and finding community resources. Elise Buggs, Academic Partnerships College Day Appropriation (\$92,351) College Day Appropriation The MI GEAR UP Program partners with Michigan's 15 public universities, and valuable external community partners to provide early intervention services and a scholarship component for low-income students. The MI GEAR UP program serves a cohort of students, beginning in the seventh grade and follows them through the first year of college. The College Day Program mission is to provide an opportunity for underrepresented students to discover, first hand, the potential of a college education and to expose students to the information, knowledge and skills they need to prepare themselves adequately for college entry and success. EMU's College Day Appropriation is directed to support the MI GEAR UP program. Jennifer Fong, Upward Bound U S Department of Education (\$10,256) Upward Bound, Supplemental funds for 2017-2018: The EMU UB program is designed to identify, select, enroll, and support 89 eligible participants and focuses on preparing students to successfully graduate college within six years of their high school graduation. EMU UB programming meets the specific needs of target students in the form of an integrated academic year, a pre-collegiate summer residential program including an algebra Jumpstart program for rising 9th graders, and a collegiate bridge and work-study/internship for seniors transitioning to college. Faison Gibson, Marketing SPARK Ann Arbor (\$5,000) SPARK Contract: In collaboration with Ann Arbor SPARK, the EMU Center for Digital Engagement, provides area high-tech startups with digital marketing interns, as well as other programming related to the evolving nature of digital engagement. Ellen Gold, Student Wellbeing Alana's Foundation (\$1,500) Flu Shot Vaccines for Un-Insured Students: Provides flu shots to students who lack preventative health care resources. Mary Kubitskey, College of Education Office of Academic Services American Institute of Bilingual Education (AIBE) (\$13,770) EMU Student Teacher International Student Teacher Program -- West Bloomfield School District: EMU College of Education, in partnership with our colleagues in the College of Arts and Science and local school districts, works to support the development of students as teachers of Chinese. Our candidates complete practicums in the partner schools as they work towards their teaching certificate. Mary Kubitskey, College of Education Office of Academic Services BCC International Education Group, Inc. (\$41,312) EMU Student Teacher International Student Teacher Program -- L'Anse Creuse School District: EMU College of Education, in partnership with our colleagues in the College of Arts and Science and local school districts, works to support the development of students as teachers of Chinese. Our candidates complete practicums in the

partner schools as they work towards their teaching certificate. Mary Kubitskey, College of Education Office of Academic Services BCC International Education Group, Inc. (\$13,770) EMU Student Teacher International Student Teacher Program -- Whitmore Lake School District: EMU College of Education, in partnership with our colleagues in the College of Arts and Science and local school districts, works to support the development of students as teachers of Chinese. Our candidates complete practicums in the partner schools as they work towards their teaching certificate. Alexander Popko, World Languages German Embassy (\$3,575) German American Day: Funding supports the teaching and learning of German and of German politics and culture. The German Consul from the Chicago Consulate will deliver two lectures. There will be a cultural learning experience referred to as the "Walking Oktoberfest" that will engage local high schools students in learning about German culture. Alexander Popko, World Languages Japan Business Society of Detroit Foundation (\$1,318) Japanese Quiz Bowl: The 24th Annual Michigan Japanese Quiz Bowl is the largest Japanese language competition for Grade K-12 Japanese Language Students in Michigan. Eastern Michigan University will examine the current curriculum at K-12 Japanese classroom in Michigan, provide direction for better classroom practice and prepare appropriate questions for the 24th Annual Michigan Japanese Quiz Bowl. Hannah Seidel, Biology Life Sciences Research Foundation (LSRF) (\$5,000) Life Sciences Research Foundation Fellowship: Nutritional control of germline stem cell proliferation: A complete understanding of stem cell biology requires better knowledge of how stem cells respond to changes in diet and nutrition. *C. elegans* offers many advantages as a model system, and its germline stem cells are extremely responsive to nutritional change: under fed conditions, these cells divide continuously; upon starvation, they become quiescent. Candidate gene approach and unbiased screen will be used to identify key regulators of nutritional control of germline stem cells. These studies will provide insight into how multi-cellular organisms evaluate nutritional state and coordinate appropriate responses across tissues.. James Sheerin, Physics and Astronomy National Aeronautics and Space Administration (\$1,500) Michigan Space Grant Operating Support for 2017-2018: 2017-2018 annual operating funds for the EMU Space Grant. Motoko Tabuse, World Languages Japan Business Society of Detroit Foundation (\$3,000) Japanese Culture Festival 2018: As a means to promote the cultural awareness of Japanese Culture, the Japanese Student Association (JSA) of Eastern Michigan University will once again host it's annual Japanese Culture Festival to showcase Japanese culture to foster knowledge and appreciation of the Japanese culture. Patricia Zimmer, Communication, Media and Theater Arts Michigan Council for Arts & Cultural Affairs MCACA (\$2,320) Bringing Theater for Very Young Audiences to Our Community: EMU Theatre will produce "Chicken Story Time," a delightful new play for very young audiences (ages 3-6) by Sandra Fenichel Asher. MCACA funds will support a tour of this production to underserved communities in our area and to bring the playwright to Michigan. The play supports early literacy in our community through an interactive theatre arts project focused on the importance of stories and reading. EMU students and area community members will have the opportunity to interact with an internationally recognized author and playwright. The play offers the opportunity for student performers, faculty and community members to participate in the development of a new work of art since the EMU production will be the mid-western premiere of the play. The production will extend EMU Theatre of the Young's usual outreach, which is typically limited to elementary schools.