

Office of Research Development and Administration
Award Report, May 2018
\$935,219

Nancy Bryk, Geography and Geology

Cranbrook Educational Community (\$6,750)

2018 Historic Preservation Field School at Cranbrook (A17-0038-002): The EMU Historic Preservation Program will undertake hands-on preservation of Tower Cottage, an Albert Kahn building on the campus of Cranbrook Educational Community (CEC) for six days in May 2018. Twenty students and three professors will work with graduate students to restore exterior elements including windows and stucco; document the landscape as well as the interior changes to this much-altered building. Additionally, students will assist with registration of artifacts in another CEC site, the Frank Lloyd Wright Smith House. This funding supports a construction manager/field school manager with extensive knowledge of historic preservation building systems and techniques.

Elise Buggs, Academic Partnerships

Michigan Workforce Development Agency (\$107,111)

Michigan King*Chavez*Parks (KCP) State-wide GEAR UP (A16-0069-004): The Gear Up (Gaining Early Awareness and Readiness for Undergraduate Programs) is a federal program to increase the number of low-income students who are prepared to enter and succeed in post-secondary education. The program serves at least one grade level of students beginning no later than 7th grade and follows the cohort through their first year of college. GEAR-UP services include tutoring mentoring, academic preparation, financial education and college scholarships to improve access to higher education. GEAR UP EMU serves 1,200 students from 3 school districts in Wayne County.

Jamie Cornelius, Biology

National Science Foundation - NSF (\$266,585)

Collaborative Research, RUI: Social modulation of migratory timing and endocrine mechanisms of migration in two flexible migrants (A18-0045-001): The objective of this project is to address large gaps in knowledge of the regulatory mechanisms underlying the expression of a migratory phenotype in birds. To do this, a series of captive experiments will be carried out focusing on two songbird species with flexible migration patterns: the pine siskin (*Spinus pinus*) and the red crossbill (*Loxia curvirostra*). The project will capitalize on extensive previous work by PI Watts (Washington State University) with the siskin system and by PI Cornelius (Eastern Michigan University) with the crossbill system. Aim 1 of the project is to evaluate the influence of social cues on the timing of the initiation and termination of the migratory life history stage. Aim 2 of the project is to advance our understanding of the role of changes in circulating steroid hormones and the availability of their receptors in the brain and periphery in the transition into and out of a migratory state and to investigate the role of these mechanisms in mediating the effect of social cues on migratory transitions. Dr. Cornelius will also oversee the design and implementation of an elementary school outreach program for Ypsilanti area schools.

Nathan Kearns, Health Promotion and Human Performance

American Academy of Orthotists and Prosthetists (\$3,400)

Outcome Measure "How To" Video Project (A18-0046-001): To increase understanding and facilitate the use of outcome measures in the orthotic and prosthetic profession clear and concise instructional videos will be created. Annually, more than 795,000 people experience a stroke, making it one of the primary causes of serious long-term disability. Similarly, Cerebral Palsy is the leading cause of physical disability in children. Orthotic interventions are commonly prescribed to treat motor deficiencies for these patients. Traditionally, the effectiveness of these orthotic devices has been judged by clinical observation and patient feedback. While clinical skills, judgment and experience are irreplaceable aspects of patient care, modern healthcare is trending toward objective, repeatable functional tests called outcome measures. Outcome measures are a direct and quantifiable way of measuring treatment effectiveness and providing evidence of change in the patient's functional status. This project will produce two videos with the aim of providing clear and concise instructions to O&P clinicians on how to perform the Edinburgh Visual Gait Score and the Modified Emery Functional Ambulation Profile. The videos will also provide information on how to interpret the results of the test, when to administer them, what pathologies they are validated for and how long they should take to administer.

Ethan Lowenstein, Teacher Education

NoVo Foundation (\$50,000)

Fostering Social-Emotional Learning Through Place-Based Education (A18-0044-001): The project further supports the integration of Social Emotional Learning into the work of the South East Michigan Stewardship (SEMIS) Coalition. The SEMIS Coalition's Placed-Based Education (PBE) curriculum methodology is an ideal model for developing social-emotional learning. The funding will be used for teacher professional development, fostering partnerships with transformational community organizations that focus on Detroit, and conceptualizing social-emotional learning's relationship to PBE.

Rebecca Sipe, English Language and Literature
National Writing Project (\$12,000)

National Writing Project i3 - Upper Elementary Advanced Institute (A18-0042-001): The Eastern Michigan Writing Project will conduct an Advanced Institute for Upper Elementary Teacher-Leaders in the summer of 2018-2019 school year. Teachers will implement the C3WP/College, Career, and Community Writers Program in their classrooms in preparation for working as professional development presenters and thinking partners in a rural school the following year.

Rebecca Sipe, English Language and Literature
National Writing Project (\$65,000)

National Writing Project - i3 - Rural Schools Professional Development (A18-0043-001): The Eastern Michigan Writing Project will collaborate with the Madison School District in Adrian, Michigan to launch an intensive professional development initiative around source-based argument writing in 2018-2019. Teachers in grades 7-10 will implement the C3WP/College, Career, and Community Writers Program during the first year, with the help of EMWP teachers as thinking partners and workshop facilitators.

Roderick Wallace, Upward Bound

U S Department of Education - USDE (\$420,498, Year 2 of 5 Years)

Upward Bound 2017-2022 (A17-0041-002): Eastern Michigan University (EMU) has successfully sponsored the Upward Bound (UB) program since 1967 and will continue providing needed services to target area students with the support of the Federal TRIO program. The EMU UB program is designed to identify, select, enroll, and maintain 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.

Tsu-Yin Wu, School of Nursing

Asian & Pacific Islander American Health Forum (\$3,875)

All of Us Community Outreach, Education, and Communication Campaign (A18-0047-001): In this NIH All of Us Outreach Project, the Health Asian Americans Project (HAAP) will support community outreach and education about the NIH All of Us Research Initiative to include more minority groups in federally sponsored research. This can include a mix of individual outreach, group outreach, and community event outreach to promote All of Us in local Asian American and Native Hawaiian/Pacific Islander communities. HAAP will also participate in a joint digital communications campaign targeting English-speaking Asian American and Native Hawaiian/Pacific Islander communities.