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1129- Remaking Marriage, Remaking Men: Gender, Law, and Colonialism in Lima

Wisnoski, Alexander

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important to me that all of our faculty have the opportunity to contribute to this project. Only through collaboration can we produce a superlative book that will be ideally suited to the UNG music appreciation course and meet the needs of our instructors and students. To this end, I have also entered into discussion with Kendall Hunt Publishing, who have offered me a contract to publish a low-cost digital textbook. Although I prefer to publish an OER with UNG Press, my top priority is to maintain a high level of involvement from our faculty team.

I will be writing most of the textbook prose myself. My collaborators will help to determine the structure and contents of the book, complete research, obtain audio and visual materials, help to secure permissions, and write sections of text that pertain to their expertise. This textbook will be organized according to the roles that music plays in societies around the world. It will engage with a diverse array of musical examples drawn from the Western art music repertoire, from global popular music traditions, and from indigenous musical practices. The book will not seek to expose students to the entire history or diversity of music from around the world, but will instead allow them to experience meaningful encounters with the examples at hand. Each example will be used both to demonstrate the roles that music plays in society and to illustrate a specific theoretical concept.

The Oxford Handbook on Community Singing will be a volume in the Oxford Handbooks series, each of which brings together experts in a field to contribute essays driven by cutting-edge research. I have already discussed my proposal extensively with the Oxford music editor, Norm Hirschy, and he has exhibited enthusiastic support. We will be meeting in early November, soon after which I will submit a draft proposal. He has offered to help me develop and submit the proposal, which he expects to be accepted by the press. I have already contacted key contributors and put together a comprehensive list of scholars whom I will invite to submit essays. I will serve as the volume editor and I will contribute my own essay and an introduction.

I am ideally suited to oversee this project. My expertise is in the American community singing movement of the early 20th century, and I have already published a monograph and three peer-reviewed articles on the subject. However, I intend the Oxford Handbook to transcend the bounds of my own

written articles in ARAA can earn over 100 citations per year. In addition, we anticipate at least one original undergraduate-led peer-reviewed journal article resulting from the project.

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1135 - Teaching Social Justice in Racially Divided Contexts: Exploring Strategies for the Decolonization of Schooling in South Africa

Johnson, Lauren - Teacher Education

The proposed project is the continuation of a research study begun in 2018 along with Dr. Kelly Henderson and funded by a Presidential Summer Incentive Award. This study investigates the incorporation of social justice education, Indigenous Knowledge practices, and multiculturalism in the South African education system, with specific attention to K-16 schooling and teacher education programs. The project addresses aspects of schooling previously unexamined by UNG College of Education faculty, namely schooling in a social context of White socioeconomic dominance, and Black and Indigenous social and economic marginalization, both before and after legal racial segregation. Despite our differences, there are few other countries whose racial dynamics and segregationist history of schooling so closely align with those of the United States. As the Social Foundations of Education program encourages justice and equity for all students, initiatives to rectify historic and current injustices through education are especially important to us. Given the current social and political climate in the United States, it is particularly urgent that we engage in research whose findings will serve as more than just a metaphor for addressing the needs of students of color within the United States. Our visit to South Africa in the summer of 2018 served as an effective preliminary research trip from which to build this project with future site visits to South Africa, additional interviews with educators and scholars, observations in K-16 classrooms, and review of relevant literature. While this grant proposal includes details travel and related expenses for just one of the initial researchers, this project remains a collaborative effort that will yield academic presentations and scholarly articles for both faculty members, and that will benefit the university overall through scholarly output and institutional partnerships.

teacher education programs, and the impact of education policy in the wider society. We recorded the interviews and took extensive notes during each meeting that will be transcribed and compiled in order to analyze the data for our dissemination activities. As the final days of our trip coincided with the World Education Research Association (WERA) 2018 World Congress, we were fortunate to be able to attend the conference and engage with educators and scholars working on relevant issues in South Africa. In addition to supporting several of our new contacts, we established connections with education researchers in the country who are interested in sharing resources and communication on topics of social justice education and decolonization of schooling in the future.

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our Social Foundations of Education coursework, and academic presentations and publications, we expect that our research will encourage our colleagues, our students, and other education students to more effectively address the needs of students with ever-evolving understandings of race, ethnicity, cultural heritage, and education.

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1103- Multimedia and Visual-logic Based Laboratory Activities for Students with Special Learning Disabilities and Visually-impaired Disabilities

Yang, Jianjun - Computer Science and Information Systems

In 2015-16, the number of students with ages 3-21 receiving special education services was 6.7 million, or 13 percent of all public school students. Among students receiving special education services, more than 1/3 had specific learning disabilities or visually-impaired disabilities. Specific learning disabilities means a disorder in one or more of the basic psychological processes involved in understanding or in using language, spoken or written, that may manifest itself in an imperfect ability to listen, think, speak, [illegible] impairment or vision loss, is a decreased ability to see to a degree that causes problems even when corrected by usual means, such as glasses. Some also include those who have a decreased ability to see because they do not have access to glasses or contact lenses .

When we are focused on colleges, there are about 770,000 students with disabilities (SWD)

learning disabilities or visually-impaired disabilities succeed in learning introductory Computer Science courses. 2. Enhance programming abilities of the students in coding warriors club and make them more competitive for real implementations.

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1142 - History or myth?: The legend of an African soldier who helped Sri Lankans resist British rule

Schindler, Melissa - English

Typically, the focus of research on the African Diaspora, or the historical spread of people of African descent outside of the continent, is the Atlantic region. My project, however, joins a robust group of scholars working to expand the notion of the diaspora to other parts of the world. I am requesting funding support to conduct research on the African diaspora in Sri Lanka, a scholarly endeavor that I began in 2013.

The proposed project will result in three, tangible products: two published articles and a public lecture. The first article will consist of a survey of the African diaspora in Sri Lanka. Whether one lives in Sri Lanka or not, research on the African diaspora in the region is complicated by the fact that relevant archival material is spread across eight countries and written in at least as many languages. Add to that the challenge of access to secondary scholarship, and new researchers to the field face a long learning curve. My first article intends to advance research by providing readers with an overview of primary materials, particularly in collections held by the Sri Lankan National Archives, as well as secondary materials. At present, this article has been partially drafted based on the results of archival work in Sri Lanka in 2013. A final research trip to Sri Lanka will allow me to complete the text and submit it for publication consideration by the end of August, 2019.

The proposed project will also produce a second article, a model of the kind of interdisciplinary scholarship I argue is both possible and necessary for gaining a comprehensive view of the African diaspora in South Asia. This research project will look at fictional and non-fictional narratives of Sri Lankan history that describe African military prowess. Interestingly, both Sri Lankans and European colonizers reportedly employed or conscripted Africans to fight on their behalf in battles for control of the island. To read these archival documents, which include newspaper articles, government correspondence, slave logs, interviews and memoirs, I draw on training in literary critical, ethnographic and historical research practices. On the same follow-up research trip to Sri Lanka, during which I will complete research for the survey article, I will also work with several documents in the National Archives pertaining to this aspect of military history in the region. The second article will focus specifically on a

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1107- Possibilities and Perceptions: Exploring Elementary Teachers? Beliefs about the ?New? Nonfiction

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citizens were thinking. Working closely with their colleagues in the Union Committee of State Security
(KGB), the materials of which are also held by this archive, these leaders watched out for anything that
might destabilize their hold on power while also trying to monitor the liberalizations of centralized
control for their own purposes. (Documents from this time are available to researchers, so long as the
information there is not considered to be dangerous to the physical security of those individuals
mentioned in them). A close examination of the extensive surveillance documented in this archive should
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}µvšŒÇ Z]vP]vX }µo šZ ^• }v

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1110- Trade Conflicts and Economic Development: A Study towards Chinese Firms? Production, Investment, andExports under Globalization

Wu, Ruohan

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1151- Geochemical And Petrological Study Of Rock Outcrops At The Elachee Nature And Science Center

Allison, Jerry- Chemistry and Biochemistry

Co-Applicants: Katayoun Mobasher (Institute of Environmental and Spatial Analysis)

The goal of this project is to provide the first detailed investigation of the geology of the Elachee Nature and Science Center through geochemical and petrographic analyses of rock outcrops. Elachee Nature Center is a SACS/Advance-Ed

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1102 - Using Mutual Help Groups to Increase Feelings of Social Connectedness and Self-Efficacy in College Students in Recovery

Lamberson, Katie Counseling

In recent years, substance use disorders (SUDs) and addiction have become recognized as a significant public health concern. According to the National Survey on Drug Use and Health (NSDUH) conducted annually by the Substance Abuse and Mental Health Services Administration (SAMHSA), approximately 49.5% of individuals aged 12 and older report some lifetime use of an illicit substance with 19% reporting use within the past year. Similarly, 24.5% of the same population reported binge alcohol use within the past month (SAMHSA, 2017). Despite these individual statistics, organizations recognize that individual use of alcohol and drugs affects individual, families, and communities at large (SAMHSA, 2018). Furthermore, amongst typical college-aged students (18-25), 57% report lifetime use of substances, 24.2% report use within the past month, and 36.9% reported binge alcohol use within the past month (SAMHSA, 2017). Although researchers have found that marijuana and prescription drug misuse is lower in college students than in their non-college peers, alcohol misuse is higher amongst college students than their non-college peers (NIDA, 2018). Each of these statistics provide evidence that substance misuse on college campuses is a concern and because SUDs impacts surrounding communities, continued misuse of drugs and alcohol can have deleterious effects on campus communities.

Mutual help groups are a cost-effective method of providing sober experiences and social support to those who are working towards obtaining and maintaining recovery (AA, 2008; CA, 2011; NA, 2010). Researchers have identified two main mechanisms of action impacting the efficacy of mutual help groups, including social and common processes. Amongst these, social processes seem to have a significant positive impact on individuals in recovery under the age of 30 (Dunn et al., 2013). Since the advent of Alcoholics Anonymous (AA) in 1935, several types of mutual help groups have emerged.

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belonging, which will lead to increased participation in non-drinking activities, and decreased reports of craving, leading to increased self-efficacy. These increased social connections and decreased cravings can have the potential to positively impact recovery efforts while attending UNG, which can in turn, positively impact social and academic experiences.

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1155- Nighthawks SOAR: Early College Enrichment Program in Oconee

Womack-Wynne, Carly - Teacher Education

This project will consist of a three week program in June of 2019 that will reinforce English, Math and Science skills for students in middle grades (rising 7th through rising 9th). The curriculum will also include a class on study skills and college knowledge so that students begin to get in the frame of mind that they have the ability to attend college after high school. The purpose of the program is to provide awareness of our presence in Oconee County as many students from Clarke County do not know that the Oconee Campus is a resource to them in their post secondary career.

This program will provide a remediation of Math, Science and English to assist them with securing a firm foundation on which to build in high school by securing ESOL certified tec2udenm

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1095- Building A Framework For Critical Religious Literacy Of Islam & Muslim Civilizations In High School Social Studies Curriculum.

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1114 - Propelling Interprofessional Collaborative Learning Experiences

DeSandre, Carolyn - Nursing

Co-Applicants: Sharon Chalmers (Nursing); P. Clay Rowell (Counseling); Pamela Chaney (Nursing); Rachael Walton-Mouw (Physical Therapy); Katie Parrish (Nursing)

Healthcare education today is experiencing a large shift in the traditional thoughts on discipline specific education based on the movement in the healthcare system to team-based collaboration to improve patient outcomes. Interprofessional education is at the forefront of higher education systems of learning, and research shows that students and faculty who actively engage in interprofessional systems of learning produce a better prepared, team oriented professional at graduation (IPEC, 2016). This project seeks Summer 2019 funding to elevate interprofessional education at the University of North Georgia by creating an IPE faculty development program and resource center designed to educate faculty on IPE core competencies; inspire faculty to incorporate IPE teaching strategies in health professions curriculum; and provide faculty with resources and mentors for IPE design, implementation and research to improve the education of health profession students at UNG and improve readiness for team-based collaborative professional care upon graduation from the University. Ultimately this will result in improved patient outcomes in the north Georgia region.

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1138- Liberal Modernism- Book Chapter Revision

Afflerbach, Ian- English

In recent years, political scientists, historians, and literary critics have all devoted a great deal of attention to the problems facing American liberalism. My book project, Liberal Modernism, argues that American writers began to recognize these problems as early as the 1930s. The book examines how modern literature acted as a catalyst for change in American liberal culture, helping to sway liberalism from a politics of social reform during the Great Depression to a politics of stability and conservingus du š Z }o t Œ X d Z ‰ Œ } i š [• • š Œ µ š µ Œ u] Œ Œ } Œ • š Z • š Á } ‰ Z • • X & o o š š v š] } v š } š Z • š Œ µ P P o (} Œ P v Œ v Œ] o ‹ µ o] š Ç] v š Z second half, I track how these key issues in liberal thinking were obscured in the 1950s and early 60s, as postwar intellectuals drew upon modern literary culture to reimagine American liberalism as a politics of individual character.

Two chapters from my book project have been published by peer-reviewed journals: English Literary History and Modern Fiction Studies. I have also spoken to the editors at Bloomsbury Press and Johns Hopkins University Press, who have both expressed interest in the book. To prepare my manuscript for submission, however, I need to conduct extensive revisions of my final chapter, which examines the P Œ } Á] v P] v À • š u v š] v ‰ } o] š] o ^ • š Ç o _ u } v P ‰ } • š Á Œ u Œ] v o] and Vladimir Nabokov as representative icons for political and literary liberal.

By visiting the Nabokov Archives at the Library of Congress in Washington D.C. next summer, I could complete revisions to this chapter and finalize my book project. With that done, I could then rewrite my book proposal in order to follow up with interested university presses. Obtaining a book contract in the next calendar next would not only represent the culmination of seven years of work, it would also put me in a strong position with the Professional Development requirements for Promotion and Tenure. In addition, publishing this book with a first-rate press such as Johns Hopkins would allow me to contribute š } h E ' [• ^ š Œ š P] W o v } (‰ Œ } u } š] v P u] Æ o o v u } v P (µ o š

Few Americans today Œ } P v] Ì š Z š ^ o] Œ o] • u _ } v o Ç u Œ P • l Ç Á } Œ] v discourse during the 1930s; my book explains why this word emerged and how it changed so quickly in u v] v P } À Œ š Z } u] v P • X D Ç ‰ Œ } i š ‰ ‹ µ Œ •] Œ a o] • u [• Z wide and interdisciplinary archive of references, which includes legal case histories on reproductive reform and desegregation, Democratic Party campaign speeches, mass

(Sauvant et al., 2009). Acquisitions can be an efficient instrument for enhancing firm competitiveness as they present learning opportunities where knowledge transfer can occur in order to achieve synergies (Greenberg et al., 2005; Maucher, 1998). Yet despite these ambitions, it is an open question as to whether and how emerging-market firms have the requisite technological knowledge and managerial processes to both learn from their foreign experiences, transfer and adjust such knowledge to their domestic context, and ultimately upgrade the productivity of their domestic operations due to the disadvantages of these firms in terms of advanced knowledge and management practices (e.g., McKinsey, 2017) and the complexities involved in cross-border business activities (e.g., Hitt et al., 2001).

Therefore in this study we will examine the mechanisms via which emerging-market firms are able to successfully learn from cross-border acquisition experiences and upgrade the productivity of their home operations in the years subsequent to acquisition activities. Building on the perspectives of asset exploration, absorptive capacity, and knowledge transfer in multinationals, we contend that emerging

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Business annual conference (the major international academic conference for International Business discipline)), and a faculty seminar/conference presentation at UNG.

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1088- Windows Operating Systems Hibernation File Forensics

Ghafarian, Ahmad Computer Science and Information Systems

Computer forensics is the application of computer science to the identification, collection, examination, and analysis of forensics artifacts and preserve evidence from a particular computing device in a way that is suitable for presentation in a court of law. The goal of computer forensics is to perform a structured investigation while maintaining a documented chain of evidence to find out exactly what happened on a computing device and who was responsible for it. Generally, computer forensic techniques can be used for investigating crimes, policy violations, or reconstructing data. The first step in any computer forensics investigation is to decide on potential sources of data for acquisition. Generally, there are two sources of data on a machine namely, static media such as hard drive and dynamic media such as random access memory (RAM). The data stored on static media are permanent in nature and the techniques and tools for static media forensics are fairly established. The physical memory is volatile and its content is lost when the machine is powered down. Because not all data needed exists in static media, RAM forensics have become popular in recent years.

In RAM forensics, the live memory is captured or dumped as a raw image file and then memory analysis tools is used to examine and analyze the captured image file. This technique enables us to retrieve most evidential data related to an incident response. However, the problem with this approach is that the content of physical memory may not be accessible if the machine powered down after the suspicious activities. Under these circumstances, we can use the most recent development in volatile memory analysis by using hibernation file (hiberfile.sys)

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its operating system. This service allows the system to save the contents of its main memory to the hard
}vš vš }(Wh[• Z š}]•l]v (]o oo Z] Œ(]o X•Ç• ‰Œ]}Œ š} •
system to save the content of its RAM to the hard drive before the system is powered down. When the computer is again powered on the hiberfil.sys is restored and the system continues from the saved state. Hibernation files are good source of information for computer forensic investigators, because they can examine and analyze the content of main memory from a file without the need to run specialized tools on the target machine.

The importance of this project includes

- To produce new knowledge or deepen understanding of the hibernation forensics.
- To develop state of the art guidelines to the computer forensics investigators,
- To engage our undergraduate students in meaningful research in computer forensics.

technology is increasingly becoming popular among individuals and businesses, including criminals. Therefore, research developments in this area will arm the forensics investigators with better tools and technology in the investigation process.

In thiswork, we analyze some of the common online social media networking by using correlation techniques to obtain data about misuse activities related to a particular user and/or account. The analysis focuses on the cache of the targeted app and its location information from the corresponding file on hard drive. We do that by examining hibernation file that is saved on the hard drive but it is invisible and it is compressed. We will use specific tools to convert the hiberfile.sys to a memory dump format. Once it is converted, we will use tools and technologies such as Volatility to examine the content of the file.

The anticipated outcome of this research include:

Providing a systematic process on the use of tools and technologies for retrieving traces of social networking (Facebook, Twitter, etc.) activities from the windows operating systems hibernation file.

Establishing the necessary links between the retrieved forensics artifacts and possible suspect for presenting to the court of law.

Arming the practitioners with better methodologies in their digital forensics investigation.

Engaging our undergraduate students in meaningful research.

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1159- Live, Learn, Lead Community

Winsor, Kyle Residence Life

Co-Applicants: Victoria McDowell (Residence Life); Grant Felty (Residence Life); Candis Hill (Student Disability Services); Bryan Dawson (Psychological Sciences); Kathryn Narciso (Psychological Sciences); Darcy Hayes (Orientation & Transition Programs)

This proposal seeks an innovation grant to offset the first-time cost developing and implementing the o Œ v] v P } u u µ v] š Ç W ^ >] À U > Œ v U > -functional collaboration between X n d Z] • Œ } the Department of Psychology, Office of Residence Life, and Student Leadership will provide an additional leadership development opportunity for students at the Univers24 T10(ofNl)13(ret)-4(h)3 Geforgla s7

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1127 - Improving Learning Outcomes for Music Appreciation Students, Part II

Morgan-Ellis, Esther - Music

Within the UNG Music Department, MUSC 1100: Music Appreciation enrolls the largest number of students. In the current calendar year, 1,332 students have taken or are taking music appreciation. This course constitutes the only encounter with the academic study of music that most of these students will ever experience, and the music faculty therefore consider it to be very important. We want this course to transform the way that students listen to music and elevate their understanding of the role that music plays in their lives and in society as a whole. However, we at UNG face a significant challenge in crafting a highly effective music appreciation curriculum: the course is taught by over a dozen faculty members spread across four campuses, and most of the instructors are part-time faculty who do not often participate in faculty meetings or visit other campuses. This makes it difficult for us to have meaningful conversations about the music appreciation curriculum and our learning goals for the course. To this end, I applied for and received a Presidential Innovation Award last year that allowed me to host a day-long retreat for music appreciation faculty in February and to accompany three other instructors to the 2018 Teaching Music History Conference in Terre Haute, IN. I also facilitated online conversations throughout the year, collected and distributed course materials, and cultivated an online library of pedagogical resources.

All of these activities turned out to be highly valuable, as demonstrated by formal feedback from the instructors and by the conversations themselves. Two new ideas arose out of our long-term dialog and training experiences, and the purpose of this Innovation Award proposal is to pursue those ideas. First, our discussion about textbooks, curricular components, and learning outcomes led to a consensus that no adequate textbook exists and that we should collaborate on producing our own low-or no-cost textbook. Second, our experience at the Teaching Music History Conference left us convinced that our students would benefit greatly from active music-making in the classroom—namely, by learning to play the ukulele.

In pursuance of the former project, I have assembled a team of twelve faculty members, myself included, who will be developing a textbook over the next three semesters. I will be the project leader and write most of the prose myself, but the other eleven contributors will help to determine the structure and contents of the volume, complete research, obtain audio and visual materials, secure permissions, and write sections of the text that fall under their expertise. The primary purpose of this textbook will be to serve the students who enroll in music appreciation classes at UNG. It will be ideally suited to their needs because it will be developed with the input of their instructors and with our desired learning outcomes in mind. I will also be developing an online course in conjunction with the textbook, which will expand our ability to offer a unified music appreciation experience to our students. Finally, if we are

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1123- Creative Science Teaching Totes: Engaging Resources that Reinforce the Georgia Science Standards for K-8 Teachers, Designed by UNG Instructors and Students

Brantley, Susan - Biology

Co-Applicants: Julie Glenn (Biology); Alyssa Myers (Biology)

The Science Georgia Standards of Excellence guide the content for the science curriculum in Georgia public education. Teachers must come up with creative and innovative ways to teach these required topics. The process can be both time-consuming and expensive for teachers who are limited in both. To address this issue, we propose to engage with local Oconee County teachers and students by } v • š Œ µ š] v P ^ Œ š] À ^] v d Z] v P d } š • X _ t Á] o o •] P v š Z d Science Standards for K-8 classrooms. The contents of the Totes will be resources and activities that aid in the understanding of a particular science topic. We plan to develop seven Totes with the following titles: Animal Adaptations; Bug Box; Coastal Connections; Criminal š] À • V , Œ [• š } z } µ Œ , o š Pollution Problems; and Science Rocks. Local K-8 teachers will have the option of borrowing the boxes or requesting to have us come and teach the lessons. Activities in these Totes will be designed by us, the grant applicants, and by our students in UNG classrooms. Students in Biology 1101 and Biology 1260, non-u i } Œ • [ ] } o } P Ç } µ Œ • • š Z š Á U š Z ‰ ‰ o] v š • U š Z U Á] o o] v presentation. Biology 1101 students will create activities for elementary students to learn how to graph data, and 1260 students may teach an activity as part of a service-learning requirement for the class. Students in ISCI 2001 (Integrated Life/Earth Science), taught by Dr. Joel Aquino, will develop and may present a Geology š] À] š Ç (} Œ š Z ^ ^] v Z-8 schools. This opportunity will allow our ISCI students to practice instructional techniques emphasized in their curriculum. Their hands ‰ Œ } • • } (•] P v] v P š Z d } š • [} v š v š • to teach these lessons in K-8 ‰ } š v š] o o • • Œ } } u U Á] o o ‰ v } µ Œ h E ' • š µ v š • [µ v Œ • š v Oconee's (•] v v • connection to the community.

information and cessation programs. We expect our results to foster state public health collaborations, strengthen UNG ties to the community, and assist in the health and education of our most at risk Georgia communities.

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1141 - Casper Drive Mobile Literacy Clinic

Jackson, Annmarie - Teacher Education

Co-Applicants: Cristina Washell (Teacher Education), Max Vazquez-Dominguez (Teacher Education)

Abstract

Importance:

The Casper Drive Mobile Literacy Clinic is a community-based project which was developed in order to support the literacy needs of K-

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Using the results of the assessments, faculty and UNG students will create individualized instructional lessons based on the needs of each student. The lessons will be created using the leveled readers and additional literacy resources. Online as well as printed texts will be used to provide guided instruction in vocabulary, background knowledge, comprehension and writing. In keeping with the vision of the school

function as a place to receive research guidance or pursue scholarly activities which has created challenges in outreach to students and faculty. To encourage and inform students on the nature of services available in the library, the librarians at the Cumming campus promote the library via hosting numerous events and workshops. These events have created opportunities to strengthen campus relationships, initiate conversations, and generate awareness of the services provided by the librarians. Hosting an art exhibit that includes art from the Cumming campus and local communities will extend the outreach more broadly and will generate additional opportunities for learning (Lotts, M., 2016; Mullins, L. & Watkins, A., 2008; Oliver, A., 2012; Sherman, A., Watson, E., & Hervochon, G., 2017). Students from the local high schools will benefit from their inclusion in a college event and their participation will introduce them to the Cumming campus community.

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Data captured through the above described mechanisms will be analyzed by a professional team of faculty and students from the CHSP as an engaged learning project. Both demographic data and themes that merge from the data will be used to construct a picture of community-derived essential health care services. A citizen-centered community action plan will be developed from this data analysis that will inform the planning for a new health care system in Lumpkin County. This data will also influence future educational program development in the college. Faculty presentation and publication of collected data will be pursued to further develop a comprehensive needs assessment of the county and region. Inter-professional educational and research experiences for students in the CHSP will be integrated into this project. The impact of this project on faculty and student knowledge/perception of roles and responsibilities in other health care disciplines will be assessed.

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1097 - Evolution of the oakworms, genus Anisota

Diggs, Tom - Biology

Co-Applicants: Evan Lampert (Biology)

Anisota is a genus of moths native to Georgia, with four known species occurring within the state. These insects have a significant economic and aesthetic impact to the region, especially in the summer, because they are significant defoliators of oak trees. The biodiversity of these moths was last described using physical characteristics. We propose to update the phylogeny of these important insects using modern molecular techniques. Along with UNG undergraduate researchers, we plan to collect local specimens of Anisota species during the summer of 2019 and obtain further specimens from museum collections. We will extract their DNA and analyze their genetic sequences. Statistical analysis of these gene sequences will allow us to build a phylogenetic tree of evolutionary relationships among these species. Because molecular analysis provides greater insight into these evolutionary relationships than analysis of physical characteristics only, we should be able to contribute significant new information about the evolution and biodiversity of these insects in the Southeastern United States.

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1126- Renewable Plastics: The polymerization of alkenes derived from plants, animals and fungus.

Cooper, Jeremy - Chemistry and Biochemistry

Co-Applicants: Eric Huddleston (Chemistry and Biochemistry); Jim Konzelman (Chemistry and Biochemistry); Clarke Miller (Chemistry and Biochemistry); Carl Ohrenburg (Chemistry and Biochemistry)

Abstract:

Derived primarily from oil, polymers are essential to maintaining the high standard of living enjoyed by many. With rising concern over the long term supply of petroleum, alternative sources of raw materials are being sought for the synthesis of polymers. Renewable resources are necessary to sustain the relentless demand for polymers.

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The chemical and physical properties of these catalysts can be varied by modifications to the ligands. The reaction of acyclic alkenes has been limited sterically by the number of substituents on the double

temperatures. Focusing on improvements that are funct

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1093- #OneUNG Crowdfund Platform

Perez, Alberto - Alumni Relations

The #ONEUNG Crowdfund project intends to create an online platform that will promote fundraising efforts from any constituent affiliated with the University of North Georgia (UNG). Faculty, staff, students, parents • v o µ u v] X d Z ‰ o š (} Œ u Á] o o u v P Ç š Z h E ' & } µ v Staff and will provide a channel for collaboration University-wide - promoting valuable initiatives from various UNG departments, colleges and organizations. Receiving this award will allow the UNG Foundation to purchase a crowdfund platform service that will allow us to implement crowdfunding initiatives throughout the year and at scale. Crowdfunding is a best practice in fundraising that is executed by a majority of higher education institutions worldwide.

The messaging behind #ONEUNG is one of unity in diversity. Promoting a message of togetherness while Z] P Z o] P Z š] v P] À Œ • µ • • š Z Œ } µ P Z (µ v Œ] •] v P u ‰] P v • U Á] o o Z branding, overall. The sense of pride of being recognized, achieving a goal and fully funding a project will go a long way as this newly consolidated University finds its identity.

The #ONEUNG Crowdfund platform's main goals are to:

1. Leverage the enthusiasm of UNG's constituency by highlighting and supporting diverse university-wide causes through streamlined online fundraising efforts.

2. Increase UNG's circle of donors by providing online tools to project managers so they can promote their fundraisers through peer-to-peer solicitations.

3. Provide UNG with relevant and timely data on what traditions and programs are important to the UNG community, which will, ultimately, help us frame UNG's new identity.

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1089 - Saving the snakes: a regional investigation of environmental variables influencing the spread of Snake Fungal Disease

Patterson, Jessica - Biology

An emerging threat to free-ranging snake populations in the eastern United States is becoming increasingly more severe and fatal. Snake Fungal Disease (SFD) is caused by a naturally occurring fungal pathogen, Ophidiomyces ophiodiicola, that acts as an opportunistic invader and results in a high death rate (Allender et al., 2018). Although this disease has been noted in populations in the so(e s)-3nder,36(c)4(d)3(,

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Funded

1096- Trauma Competency Workshop for Counselors in training

Land, Laura Counseling

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The need for the proposed study arose out of the belief system of counseling professionals and outcomes assessing counselor self-efficacy/competence, emotional regulation, and knowledge, may serve as an initial framework to support the professional development and training of counselors by providing empirically derived information to improve pedagogy. Findings may in turn aid in the further refinement

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1134 - Investigation and characterization of Lavandula angustifolia essential oil

Quarles, Brynna - Chemistry and Biochemistry

Co-Applicants: Nicole Hollabaugh (Chemistry and Biochemsitry)

As the use of essential oils for natural home remedies becomes increasingly ubiquitous, it is of interest to better understand both the quality and potential hazards of these oils, which may be applied topically and/or ingested. Lavender oil, reportedly one of the most popular oils[1-3], will be the focus of this research. Although it is comprised of over 100 organic compounds, some of the major constituents in lavender essential oil include linalool, linyl acetate, camphor, α-pinene, camphene limonene, among others, which contribute in various ways to properties of lavender oil. Percent composition of lavender oil can vary from sample to sample and those compositions can be analyzed using various methods (Figure 1, see proposal).[4-6]

In this research, we will analyze 25-30 brands/samples of lavender essential oil using FTIR spectroscopy, GC-MS, ICP-MS, and refractometry. After data collection, we will use a chemometrics statistics approach to evaluate the data sets. The oil samples chosen for analysis will vary in price, brand and source of availability, and growth region of the lavender plant from which is was obtained. The variation in samples will allow for comparisons of the oils from several perspectives, both of chemical and consumer interest. The project will culminate with a manuscript for submission to a peer-reviewed journal and student presentations at a chemistry conference.

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The main content of this proposal will be to make accessible lab activities for students with the above disabilities and lead talent students in coding warriors club to work on the implementations. The main contributions includes two aspects. 1. Produce accessible lab materials to help students with special learning disabilities or visually-impaired disabilities succeed in learning introductory Computer Science courses. 2. Enhance programming abilities of the students in coding warriors club and make them more competitive for real implementations.

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