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as critics argue about who should be seen in stories and on screens, and how they should be represented. This shift has clearly increased the diversity of American literature, film, and television. And yet this discourse has also begun to expose ~~lies~~ <sup>fract</sup> within these identity communities, as group members have found it increasingly necessary to establish boundaries around group membership and to police those who, according to their point of view, interests.

modern American culture. Beginning in the late 19th century, when this phrase caught on as an epithet for individuals who betray some cause for gain, I show how the concept developed <sup>can</sup>

literature has played a particularly important staging ground for hosting these accelerating debates about the politics of recognition, and for working through the subtle questions about personal identity and group representation raised by such actions. ~~course~~ <sup>course</sup> Examining a diverse set of fiction writers, I place them into conversation with political theories of pluralism and multiculturalism, while also drawing upon interdisciplinary scholarship ranging from music history to social geography. My book ~~poses~~ <sup>poses</sup> questions of belonging and betrayal not as a simple matter of right and wrong, but as a window into the struggle for minority recognition in









and deliver key results promised to experimental analysis groups that rely on theoretical input for carrying out measurements and simulation studies for the Large Hadron Collider (LHC) and the proposed Electron Collider (EIC). The proposed research includes a project aimed at delivering the most precise measurement at the LHC of the mass of the top quark, the heaviest known elementary particle. It will be in collaboration with the "ATLAS" experimental collaboration at the LHC. In particular, I'm registered as an "Analysis and Consultant Expert (ACE)" with ATLAS in order to provide expertise and guidance for this important measurement based on my published work and numerical codes on this subject. I also serve as convener of a physics working group for the EIC Comprehensive Chromodynamics Experiment (ECCE) collaboration and am tasked with leading a set of EIC simulation studies. Students at UNG have been very involved in my research and have made valuable contributions and achieved impressive results, including being a co-author on a publication in a high impact journal, presenting research at various conferences, and receiving prestigious awards and external research internships. The proposed research will allow another student to join the effort and contribute to high impact particle physics research. Two major outcomes of this proposal include two joint publications, one with the LHC ATLAS collaboration and another with the ECCE collaboration. In addition, the proposed research is expected to generate a few other journal publications, presentations at conferences, and opportunities for the student researcher to become a co-author on a publication and present at conferences.

Resource use analysis of a diving vertebrate in the presence of a widespread invasive plant species in Georgia

Dr. Natalie Hyslop, Professor Biology; Dr. Jennifer Mook, Professor Biology; Dr. Abby Neyer, Assistant Professor Biology

Proposal Abstract:

Declines in wildlife species are occurring globally and have important direct implications for economics, ecosystem stability, and public health. The biodiversity of an area provides important ecological services that are essential for human existence, such as oxygen recycling, water purification, and soil formation 1. Turtles have enormous impacts on their ecosystems and thus also help provide vital services that humans rely on, including soil formation in addition to nutrient cycling and forest regeneration 2. As part of this biodiversity, turtles have enormous impacts on their ecosystems and the functioning of these ecological services that humans rely on. Unfortunately, a majority of turtle species are currently experiencing drastic global population declines 2, primarily due to habitat loss and collection for the pet trade. Considering the significant impacts of these species on the ecosystem, and how our native wildlife are under considerable threat of extinction by a multitude of threats including habitat destruction and modification, pollution from multiple sources, and invasion by non-native species that compete for limited resources and alter ecosystem composition, it is increasingly important to investigate the causes of turtle population declines and potential solutions for conservation. Our study examines Eastern Box Turtle (*Terrapene carolina*) habitat use from 2015 to 2019.

the literature since long-term population studies of long-lived species of turtles are vital yet limited because of funding and logistical issues 3, 2) provide additional resources for development of conservation plans for box turtles particularly in small preserve areas such as Tumbling Creek Woods, 3) represent a cumulative product representing the work of faculty and students over 8 years that has been well supported by UNG funding and 4) provide undergraduate research students with hands-on experience with data analyses, presentations at local, regional, and national scientific conferences, and publication in peer-reviewed scientific journals.

## The Art of Practice An Advanced Multilingual Music Performance Textbook Dr. Adam Frey Associate Professor Music

### Proposal Abstract:

Recognized internationally as a leading specialist on the euphonium, I have spent nearly 20 years performing and educating around the globe. As a master teacher, I have witnessed and helped the euphonium mature and become an important fixture in wind bands and brass festivals with specific growth in South America and Asia. I completed my first textbook, *The Game of Practice*, as part of a 2019 PIA, and it has already gained international success and adoption by UNG students. I am requesting support to complete a second textbook that will serve as an advanced manual on playing and studying the euphonium. *The Art of Practice* will present more advanced techniques and practice concepts that will aid undergraduate and graduate students. My current and previous students have enjoyed great success nationally and internationally using these techniques. This textbook will become a significant and original reference for euphonium players around the globe.

*The Art of Practice* will feature innovative and unique explanation videos (on a private YouTube or Vimeo channel) and technology tips. Unlike current texts, which have been adapted or transcribed from the trumpet or trombone, this new book will address the specific pedagogical needs of the euphonium. This method will also be unique because it includes thorough explanations in addition to musical exercises. Most current books just include routine exercises. This is a fault with many texts, which lack a deeper connection to comprehensive learning and

translated into Spanish and Chinese in collaboration with UNG language programs and two leading South American and Chinese experts in the field. These partnerships will provide an opportunity for beta testing in other countries and will ensure that this text will be utilized internationally. I used this same approach with my first book, *The Game of Practice*, and it proved very successful.

The completed text will be made available in both print and PDF versions. I have already been offered a contract by the two major publishers for low brass music the world over: the Tuba Euphonium Press, founded by the International Tuba Euphonium Association, and Cimarron Music, which publishes more than 5000+ brass titles. This innovative text will also feature video explanations and interactive chamber music tools, including music-one (recordings that contain all parts except the one played by the textbook user) and play-along (recordings intended to guide the user on a selection). The textbook will be presented at four major international conferences (2 held in the USA, 1 in South America, and 1 in China) from late June 2022 to May 2023.

Presidential Incentive Award for Innovation:

- x Biomechanical Modeling of the Foot and Spine  
Mr. Enes Aganovic, Assistant Director of Technology Integration, DETI

- x Proposal Abstract:

Skeletal bone models have been used in the education of the human body for decades to provide clinicians and students with an educational tool to better understand anatomical structures. Several studies have proven the effectiveness of using 3-D models as a form of active learning to better understand the material. The goal of this project is the construction of a manipulatable foot/ankle and spine skeletal model to demonstrate arthrokinematic and osteokinematic pathologies for various musculoskeletal and neurological conditions. The skeletal model would show the effect of forces on the joints starting at the feet and progressing up the chain to the spine. For the purpose of this project, just the foot and spine are focused on. Currently, there are no manipulative foot/ankle and spine models on the market with





x Narrative North Georgia: Team-Teaching and Undergraduate Research at a Multi-Campus Institution

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Melissa Schindler, Assistant Professor, English

Proposal Abstract:

Since the 1970s, scholarly research on best practices in higher education has stressed the role of active learning practices in student success. The Association of American Colleges and Universities identifies pedagogical approaches such as interdisciplinarity, teaming, writing-intensive coursework, collaborative learning communities and undergraduate research as high-impact practices. College courses that encourage students to engage in active learning practices not only help them understand content material better but

*The Development of Prospective Teachers' Noticing of Childrens' Mathematical Thinking*  
- A Longitudinal Study

Dr. John Bragelman Assistant Professor Mathematics

Proposal Abstract:

This proposal focuses on the development of prospective teachers in the K8 teacher education program at University of North Georgia and on the development of their abilities as teachers of mathematics. Effective mathematics teaching requires teachers to engage in instructional practices that continually adjust and res understanding (National Council of Teachers of Mathematics, 2014). Engagement in such practices requires teachers to draw upon a variety of knowledge and skills (Ball, Sleep, Boerst, & Bass, 2009) such as teacher noticing, the ability to attend to and reason about moments of teaching and learning in the classroom (Sherin, Jacobs, & Philipp, 2011). Research on prospective teacher noticing has grown considerably over the past decade (Amador et al., 2021). Like thinking, interpret what their thinking implies for their current understanding, and decide where children need to go next in order to advance their learning (Jacobs, 2010; Leatham et al., 2015). However, prospective teachers do not have the same wealth of teaching experiences and knowledge that practicing teachers do. Expert practicing teachers, for example, are able to recognize which features of classroom practice warrant attention and generate hypotheses about children based on available information (Carter et al., 1988; Dreher et al., 2021). Yet, many studies have demonstrated that prospective teachers can improve their noticing skills over time (e.g., Santagata et al., 2021; Stockero, 2021), including providing greater depth in their

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The Power and Potential of Nonfiction: A Workshop for Teacher Candidates  
Dr. Danielle Hartsfield Associate Professor