UDRAW SPRING 2022 PROJECTS

ART HISTORY / ART CONSERVATION

Old College’s Original Colors (2 positions)
A collaborative project of faculty members in Art History, Art Conservation, Center for Historic Architecture and Design (CHAD), and Winterthur Conservation Lab: we will launch a project examining the original color scheme of Old College. UDRAW-RAs will be assigned a specific task of researching the history of Old College from the archival files at CHAD, UD archives, and Delaware archives. We seek students with a strong sense of responsibility. The assignment is self-pace, with 4 check points when the RAs will report progress that meet the milestone of each check point. The assignment is estimated for 100 hours and the payment is up to $1000, per semester.

Work-study eligibility is required. Check your work-study eligibility here
Interested students should contact Dr. Rujivacharakul (vimalin@udel.edu) for more information and to apply.

Asian Aesthetics and American Art (1 position)
-Working with Drs. Rujivacharakul and J. Ritchie Garrison to identify images and image rights for a special issue of a peer-review journal. We seek students with a strong sense of responsibility and good communication/email skills. Students who plan to pursue advance degrees in art history and/or material culture will find this RAship an excellent opportunity to establish connections with scholars in the field. The assignment is self-pace, with 4 check points when the RA will report progress that meet the milestone of each point. The assignment is estimated for 100 hours and the payment is up to $1000, per semester.

Work-study eligibility is required. Check your work-study eligibility here
Interested students should contact Dr. Rujivacharakul (vimalin@udel.edu) for more information and to apply.

Landscape of Slavery (1 position)
-Working with Dr. Ikem Okoye on the Landscape of Slavery project that engages sculpture, landscape, and architecture in West Africa and the Diaspora. The RA’s tasks would include: online research guided by Dr. Okoye; downloading and forwarding museum owned objects; downloading related articles; and basic indexing of sources related to keywords. The assignment is estimated for 100 hours and the payment is $1000, per semester.

Work-study eligibility is required. Check your work-study eligibility here
Interested students should contact Dr. Okoye (isokoye@udel.edu) for more information and to apply.
BEHAVIORAL HEALTH AND NUTRITION

**Research Mentor:** Dr. Sheau Ching Chai, Associate Professor; Department of Behavioral Health and Nutrition

**Project:** Effects of functional food on cardiovascular health and cognitive function

**Project description:** Cardiovascular risk factors and memory performance will be assessed before and after the intervention. Students will be trained to conduct phone-screen interviews, in-person interviews, anthropometric measurements, data collection, data entry, and process human specimens.

**Webpage:** https://sites.udel.edu/chai-research-lab/

**Email:** scchai@udel.edu

BIOLOGICAL SCIENCES

**Position Description 1:**

The goal of this work study opportunity is to revise and develop spreadsheet modules for this website which is associated with the Biological ESTEEM Project: Excel Simulations and Tools for Exploratory, Experiential Mathematics. The project has succeeded over the past 15 years in helping many biologists and biology students appreciate the power and utility of mathematics as well as providing tools for analysis, modeling, and interpretation. These modules have been used by students and professors both nationally and internationally.

Previous students have been recruited for graduate school and work opportunities based on the modules that they developed as part of their portfolio. Students from any major may apply, and both art and engineering students have done exceptional work on this project. (For samples of their work see <http://bioquest.org/esteem>. Applicants should have some experience in working with Microsoft EXCEL. Good high school algebra is the only math background required; some programming experience and more mathematics are helpful but not essential.

Please contact jungck@udel.edu with a copy of your CV and a description of why you would like to be involved with this project.

**Position Description 2:**

4D Printing via Self-Assembly and Self-Folding

The goal of this work study opportunity is to revise and develop better development procedures for making our self-assembling icosahedral models.
Currently our approach is too tedious as we have to glue in 120 tiny magnets on 20 triangular pieces to build just one self-assembling icosahedron. We also would like to build models via self-folding. The candidate should have background in any of three areas: (1) familiarity with design software - either Autodesk CAD or Photoshop or Canvas; (2) operation of a 3D printer or a laser cutter; (3) experience in folding origami models. We have used these models in workshops for high school teachers and would like to be able to have teachers be able to have their students easily make their own self-assembling icosahedral and dodecahedral models.

Four previous students have been recruited for graduate school and work opportunities based on the models that they developed as part of their portfolio. Students from any major may apply. Students from art, biology, education, and engineering students have done exceptional work on this project.

Please contact jungck@udel.edu with a copy of your CV and a description of why you would like to be involved with this project.

COMMUNICATION

Area: Communication

Position: Research Assistant

Description: Dr. Ellithorpe’s lab conducts research related to media use and media effects, especially topics such as video games and decision making, health behaviors, and media enjoyment. Research assistants will work with Dr. Ellithorpe and the graduate students in the lab to run lab studies, assign credit in SONA for online studies, and help design, create, and test stimuli for studies. RAs will also be expected to attend the biweekly lab meetings (schedule allowing), held at 2pm on every other Thursday during the semester. The first meeting for Spring 2022 will be February 17th.

Required skills: Interest in communication and media, familiarity with video game controls (console and/or PC). Further training will be provided.

Preferred skills: Experience with video and photo editing software is a plus, but not necessary.

Time required: Up to 10 hours per week, flexible. To apply: Email Dr. Ellithorpe at mellitho@udel.edu with your CV, a description of your interest in the position, and the skills you would bring to the lab.
**EDUCATION**

**Job Description:** The undergraduate research scholar will work with Dr. Bryan VanGronigen’s research program, which centers on (a) how to improve schools and (b) how to prepare educational leaders. Depending on interest and/or fit, the scholar is welcome to work on one or more projects related to these two topics. Scholar responsibilities include assisting with data management and/or cleaning and analyzing data (e.g., reviewing interview transcripts). A number of other projects are either in progress or under development, so if a scholar is interested in the research program in general, feel free to reach out to explore potential alignment among interests and work needed.

**Required Skills:** The scholar will join a multi-site research team, and our only required skills are your abilities to work collegially, professionally, and independently.

**Preferred Skills:** While our team will mentor you with what you need to know, we can move faster if you have a working proficiency of Microsoft Word and Excel and the Google Apps suite (Docs, Sheets, Forms). Moreover, while not required, we’d hope you have an interest in education and educators, even if you’re not an education major or minor. All are welcome!

Approximately 3 to 10 hours per week dependent on project workload needs.

Contact Dr. Bryan VanGronigen for more information and/or to apply – bg@udel.edu

**EDUCATION**

**Job Description:** Majd Subih, a Ph.D. student, is looking for assistance with transcribing a group of Interviews (10 interviews). Each interview is approximately 60 minutes long (some are shorter, some are a bit longer). You can choose the number of interviews you would like to work on based on your time and availability. The topic of the interviews deals with the intersectionality of disability, ethnicity, religion, and gender.

Interested students should contact Majd Subih (msubih@udel.edu) for further questions.

**ENGLISH**

Dr. Lynette Overby (overbyl@udel.edu) is preparing a handbook of dance scholarship. She is looking for assistance with research, organizing and editing. English or journalism students or dance minor student interested in writing are preferred.
Up to 10 hours per week

Interested students should contact Dr. Lynnette Overby (overbyl@udel.edu) for further questions and to apply.

**ENGLISH**

Dr. Lynnette Overby (overbyl@udel.edu) is looking for assistance with developing a white paper on Community Engagement Projects at UD.

1. Research and writing definitions and examples of community engagement P&T documents from various universities.
2. Assisting with the development of a White Paper for UD

English or journalism students or dance minor student interested in writing are preferred.

Up to 10 hours per week

Interested student should contact Dr. Lynnette Overby (overbyl@udel.edu) for further questions and to apply.

**MUSIC EDUCATION**

Area: Music Education

Position: Research Assistant

Description: Prof. Pearsall's research revolves around student-centered learning in music classes. Specifically, she's researching alternative approaches in choir classes, and student perceptions of these approaches. Scholar responsibilities will primarily include cleaning data (e.g. reviewing interview transcripts).

Required Skills: The scholar will need to work independently. The scholar should be meticulous, detail-oriented, and a good communicator. The scholar does not need to be from any specific department, and no prior knowledge of music or education is required.

Time: Approximately 10 hours per week, though this may fluxuate depending on project workload needs.
Contact Prof. Aimee Pearsall for more information and to apply- apearsall@udel.edu.

**PHYSICS AND ASTRONOMY**

Join the High Energy Density Physics (HEDP) group at University of Delaware for an undergraduate research work-study experience this semester. The computational project will involve working with the plasma physics code FLASH to model scientific problems relevant to the National Inertial Confinement Fusion Research Program carried out at UD in collaboration with the US National Laboratories (Sandia, Lawrence Livermore and Los Alamos) and the Laboratory for Laser Energetics.

Previous coding and UNIX experience is preferable but not necessary. The project will be supervised by prof. A. Bose, and the student will be working in collaboration with the members, graduate and undergraduate researchers, in the HEDP group.

Approximately 8-10 hours are required per week. The project duration is at least 12 months beginning immediately.

Contact Prof. Bose **Contact:** Prof. Arijit Bose, Department of Physics and Astronomy (bose@udel.edu) for more information.

**PLANT AND SOIL SCIENCES**

**Wanted: Student with an interest in Edible Forest Gardens/ Food Forests!**
The UD Center for Food Systems and Sustainability has made possible the installation of an Edible Forest Garden at the UD Children’s Campus. There are a significant number of new gardens at the UD Early Learning Center and UD Lab School, on Wyoming Road, that provide an opportunity for a student to gain experience in landscape management, edible forest gardens, youth education about where food comes from, and landscape architecture. This campus is accessible via UD buses and is a short walk from campus.

This position will be a hybrid experience, incorporating these tasks and others as determined by mentors:
1. Plant maintenance and management (including watering/ weeding/ planting/ plant health evaluation);
2. Assisting with documentation and future planning.

Student will gain experience in plant maintenance processes, landscape architecture, permaculture & food forest principals.

Students must be able to work in all weather conditions and to lift 30 pounds on a regular basis. Students must complete background checks to work in an educational environment. Estimate approximately 5-10 hours per week. Start date ASAP. Starting pay scale $10.00
Required skills:
· Highly organized
· Detail oriented
· Self-motivated
· Comfortable working independently and in a team
· Eager to share ideas and knowledge
· Responsive to team and supervisor communication
· Interest in sustainability
· Able to lift 30 pounds
· Successfully complete background check*
· Sophomore or Junior
*In order to work directly for ELC will need to complete fingerprinting and background check

Desirable:
· Experience/ coursework related to plant ID & maintenance, horticulture, permaculture, vegetable gardening,
· Experience with AutoCAD, Photoshop, and Adobe Suite,
· Experience with Google Docs, Excel and web forms.

Please send a resume and one-page letter of interest via email, including current GPA and any previous experience with garden maintenance, horticulture, early childhood education, food forests, and project management. In addition, provide name of a faculty sponsor, or external supervisor with familiarity of your academic or extracurricular activities who we may contact as a reference to:

Anna Wik (annawik@udel.edu) and Kelly Freel (kfreel@udel.edu)

Any additional questions may be directed to:

Anna Wik
Associate Professor of Landscape Architecture
Plant and Soil Sciences
University of Delaware
139 Townsend Hall

**SOCIAL NEUROSCIENCE**

**Social Neuroscience Research Assistant Job Description**

The Impression Formation Social Neuroscience Lab (ifsnlab.org) investigates how we form impressions of people. The lab uses both neuroscience and behavioral research methods. The lab seeks a student for virtual work in the fall to help conduct research online. The student’s responsibilities will include: (1) creating stimuli, (2) conducting online research, (3) cleaning and analyzing data, (4) programming studies, and (5) other miscellaneous tasks.

Required Skills: High GPA, attending lab meetings, and a 10 hour a week commitment.

Email: jtkubota@udel.edu