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2021-2022 Graduate Faculty Award Recipients

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Graduate Student Research

Effects of stepwise guided inquiry on students' attitudes and depth of knowledge from written lab reflections in high school chemistry

Recipient of the 2022 Outstanding Master's Research Paper Award - First Place

Keywords: Chemistry; Study and teaching (Secondary); High school students; Attitudes

Abstract: Many teachers find it challenging to embed guided inquiry into high school chemistry courses. Although guided inquiry provides excellent opportunities for students to engage in data analysis, misconceptions, and discussion, few class time for teacher-created problems with closest inquiry. A stepwise inquiry project can allow students to engage in guided inquiry process for one section of high school chemistry. This stepwise inquiry project examined three different inquiry labs designed around the
Graduate Student Research

Pasting our past: Cultural memory, family photographs, and ephemeral street art

Irae M. Campbell, University of Northern Iowa

Abstract

This thesis examines ephemeral painted vernacular photograph murals positioned as artifacts of cultural memory. The creative method portion of the thesis, in partnership with the Department of Communication and Media at the University of Northern Iowa, and funded through a Cedar Valley Community Bellemert grant and an Iowa Arts Council project grant, includes the Spring 2021 production of a series of nine painted murals of vernacular photographs sourced from the Fortpoint Iowa archive. The creative component of the thesis project is a public art exhibition presented through a photographic record of the installation process, the compilation metrics, and a framework exploring the process of creating ephemeral street art. This research supports the growing field of cultural memory studies and serves as an application of theory and practice.
The Three Minute Thesis (3MT®) competition at the University of Northern Iowa began in 2021.

The Three Minute Thesis (3MT®) is an academic research communication competition developed by The University of Queensland (UQ), Australia. UNI has been granted permission to hold an event modeled after the 3MT® event developed by The University of Queensland (UQ), Australia. The UNI competition celebrates the exciting research conducted by graduate students at the University of Northern Iowa. 3MT® cultivates students’ academic, presentation, and research communication skills. The competition supports their capacity to effectively explain their research in three minutes, in a language appropriate to a non-specialist audience.

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