



September 14-15

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Engaging Undergraduate Students with Google Sheets:  
A Simple Classroom Exercise

With Erik Fausak and Brendan Johnston



## 104F: Writing in the Health Sciences and Professions and the Need for Library Instruction

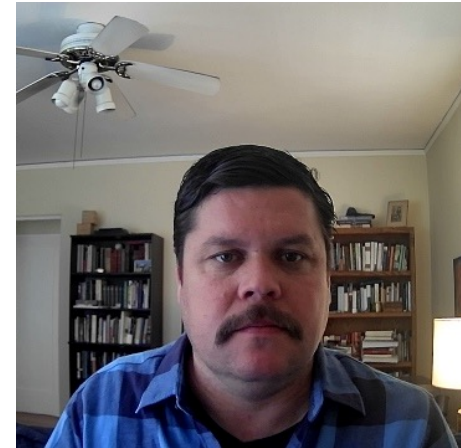
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- 104F is one of the most frequently taken upper-division writing courses in UWP
- Serves a large constellation of H.S. adjacent degrees: nursing, dental, animal science, PT, pre-med, etc.
- Students are generally good writers and communicators, but struggle with secondary research, analysis, and synthesis
- Central project is a Review of Literature, including a detailed methods section; followed by a collaborative document that translates the review into a public-facing genre.
- This is why research instruction in this course is so essential!



## The Pedagogical Purpose of Library Research Instruction from the Instructor's Perspective

- Student Learning Outcomes and Takeaways:
  1. Modeling and Implementing Fundamental Research Strategies
  2. Knowledge and Active Use of Best Resources and Databases Available through the UC Library
  3. Engagement in early critical appraisal; and incorporating inclusion and exclusion criteria
- Also, introduces students to another important contact for the research and writing process: Erik Fausak and the other research librarians
- If time, introduce and model the importance of keeping a systematic paper trail; i.e., citation management systems
- In general, good use of active learning; promoting student to student (StS) and student to teacher (StT) interaction.



Introduce library resources (in person)

VPN + homepage

Find book chapters

Retrieve books

+/-

Student Activity:  
Find a narrative review in PubMed

Paste article in Google Sheets

Paste title in Scopus

Find who cited it and look at their references

Introduce library resources (Asynchronous Module)

Research guides

Question types

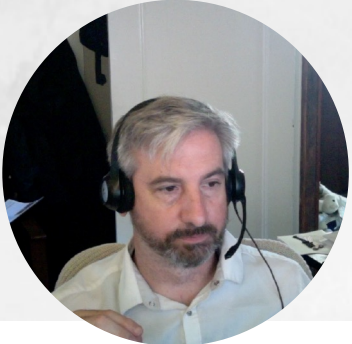
Boolean searching

Finding articles/starting with PubMed (in person)

keyword search

pearl searching

citation tracking





article title	year
Managing keloid scars: From radiation therapy to actual and potential drug deliveries	
Mortality in systemic lupus erythematosus: causes, predictors and interventions	2018
Suicide in veterinary medicine: A literature review	2023
The prospective association between sleep deprivation and depression among adolescents	2021
Health effects of vegan diets	2014
Autism risk factors: genes, environment, and gene-environment interactions	2009
Mechanisms, Prediction, and Prevention of ACL Injuries: Out Risk With Three Sharpened and Validated Tools	2017
Psychosocial impact of type 1 diabetes mellitus in children, adolescents and their families. Literature review	2016
Hallucinogens in Mental Health: Preclinical and Clinical Studies on LSD, Psilocybin, MDMA, and Ketamine	2020
Rheumatoid Arthritis: Early Diagnosis and Treatment	2021
Diabetes and associated complications in the South Asian population	2020
Implications of Language Barriers for Healthcare: A Systematic Review	2022
	2019
	2023
	2020

Student Activity:  
Find a narrative review  
in PubMed

Paste article  
in Google Sheets

Paste title in Scopu

Find who cited it and look at  
their references

### 1 - Quiz

What resource was reviewed in class that I can paste in the title and find how many citations that article has?



Review

Mortality in systemic lupus erythematosus: causes, predictors and interventions

Ocampo-Piraquive, V.,  
Nieto-Aristizábal, I.,  
Cañas, C.A., Tobón, G.J.

Expert Review of Clinical Immunology, 14(12), pp. 1043–1053

2018 89

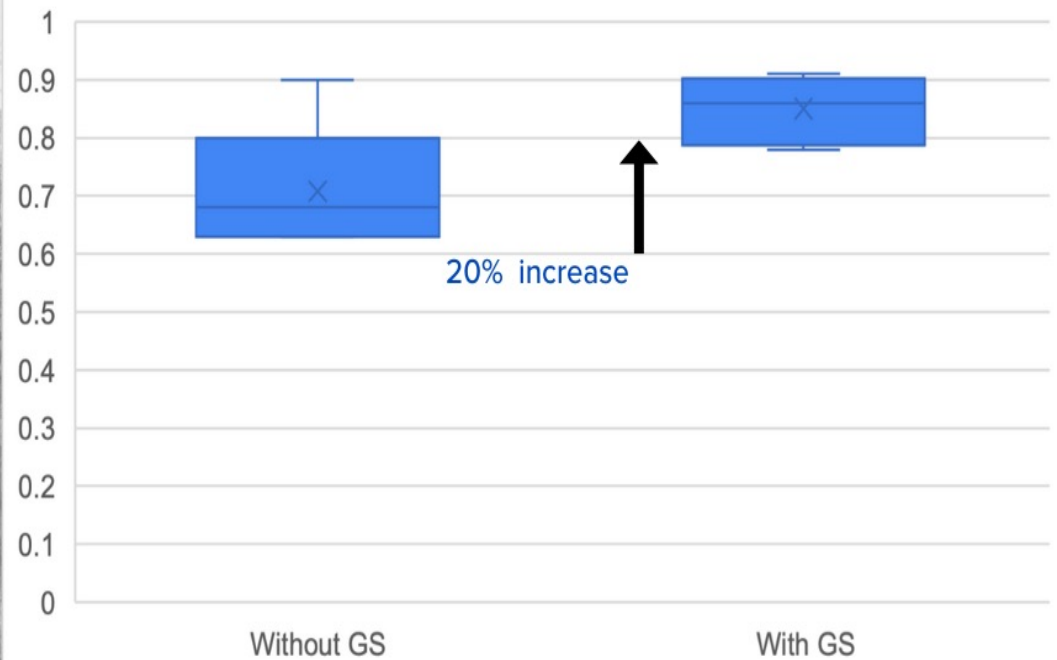
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# The results

Sessions without GS compared to sessions with GS



## Discussion/Takeaways

- Use of Google Sheets improves student performance
- This activity utilizes active learning
- This assignment also is useful to students for them to complete their project
- Less heterogeneity of results when engaging this activity.



small acts,  
**big impacts**  
SITT 2023