Instructions

* Prepare a brief research proposal (~6-9 pages) on a data visualization topic.
* Can be an empirical study of some aspect of data visualization, a historical review, or a proposal for development or implementation of a graphic method.
* The topic should not be identical to that of your presentation.
* Due at the end of the exam period, ~April 25.

**Topic: Using data visualization and graphics for effective knowledge translation of healthcare research findings.**

Preliminary notes on the topic:

* In this new age of misinformation, knowledge translation (KT) is becoming an increasingly important way to communicate healthcare research findings to target community members.
* KT is a useful approach to bridging communication gaps between researchers and public audiences. However, research in the areas of clinical and health services suggests that researchers often fail to translate their findings into practice and policy. Consequently, target stakeholders, such as patients receiving healthcare services, may fail to benefit optimally from advances in healthcare research (Grimshaw, Eccles, Lavis, Hill, & Squires, 2012).
* Key questions related to KT include (Lavis, Lomas, Hamid, & Sewankambo, 2006):
  1. What should be transferred?
     + I.e., Which aspects of research findings are important to convey to target audiences?
  2. To whom should research knowledge be transferred?
  3. By whom should research knowledge be transferred?
  4. **How should research knowledge be transferred?**
     + **The current paper will largely focus on this question.**
  5. With what effect should research knowledge be transferred?
* KT is important yet underutilized by most clinical and health researchers. Therefore, in the current paper I will argue:
  + 1) for the importance of including KT as a final step in healthcare research, and
  + 2) that data visualization is a key and necessary ingredient for effective KT (Opila, 2019).
    - Thus focusing on question 4 above.

**References**

Grimshaw, J. M., Eccles, M. P., Lavis, J. N., Hill, S. J., & Squires, J. E. (2012). Knowledge translation of research findings. *Implementation Science, 7*:50.

Lavis, J. N., Lomas, J., Hamid, M., & Sewankambo, N. K. (2006). Assessing country-level efforts to link research to action. *Bulletin of the World Health Organization, 84*(8), 620-628. <https://doi.org/10.2471/blt.06.030312>

Opila, J. (2019). Role of visualization in a knowledge transfer process. *Business Systems Research, 10*(1), 164-179. <https://doi.org/10.2478/bsrj-2019/0012>