Research articles vs. Review articles

- A *research* article describes an investigation that is centered around a specific hypothesis or an objective
- The <u>authors</u> test the hypothesis or meet the objective by designing a method or model, collecting and analyzing data, and drawing conclusions using an appropriate and reproducible methodology
- A research article has a reproducible method involving something other than "searching the literature"

- A *review* article is an article that summarizes what others have done in a way that often organizes findings according to specific methods or themes
- When exploring research topics, review articles can be great places to start, but you will need research articles for your Article Critique and Literature Review

- Note that there are *other* article types such as a perspective, blog post, patent, and press release that are neither a *research* or *review* article.

Article examples

- Research article:

    Ahsan, M.M.; Li, Y.; Zhang, J.; Ahad, M.T.; Gupta, K.D. Evaluating the Performance of Eigenface, Fisherface, and Local Binary Pattern Histogram-Based Facial Recognition Methods under Various Weather Conditions. *Technologies* **2021**, *9*, 31. https://doi.org/10.3390/technologies9020031

- Review article:

    W. Zhao, R. Chellappa, P. J. Phillips, and A. Rosenfeld. 2003. Face recognition: A literature survey. ACM Comput. Surv. 35, 4 (December 2003), 399–458. https://doi.org/10.1145/954339.954342

- Press release: https://news.utdallas.edu/science-technology/racial-bias-facial-recognition-2020/

- Research article:

    J. G. Cavazos, P. J. Phillips, C. D. Castillo and A. J. O'Toole, "Accuracy Comparison Across Face Recognition Algorithms: Where Are We on Measuring Race Bias?," in IEEE Transactions on Biometrics, Behavior, and Identity Science, vol. 3, no. 1, pp. 101-111, Jan. 2021, doi: 10.1109/TBIOM.2020.3027269, https://ieeexplore.ieee.org/abstract/document/9209125