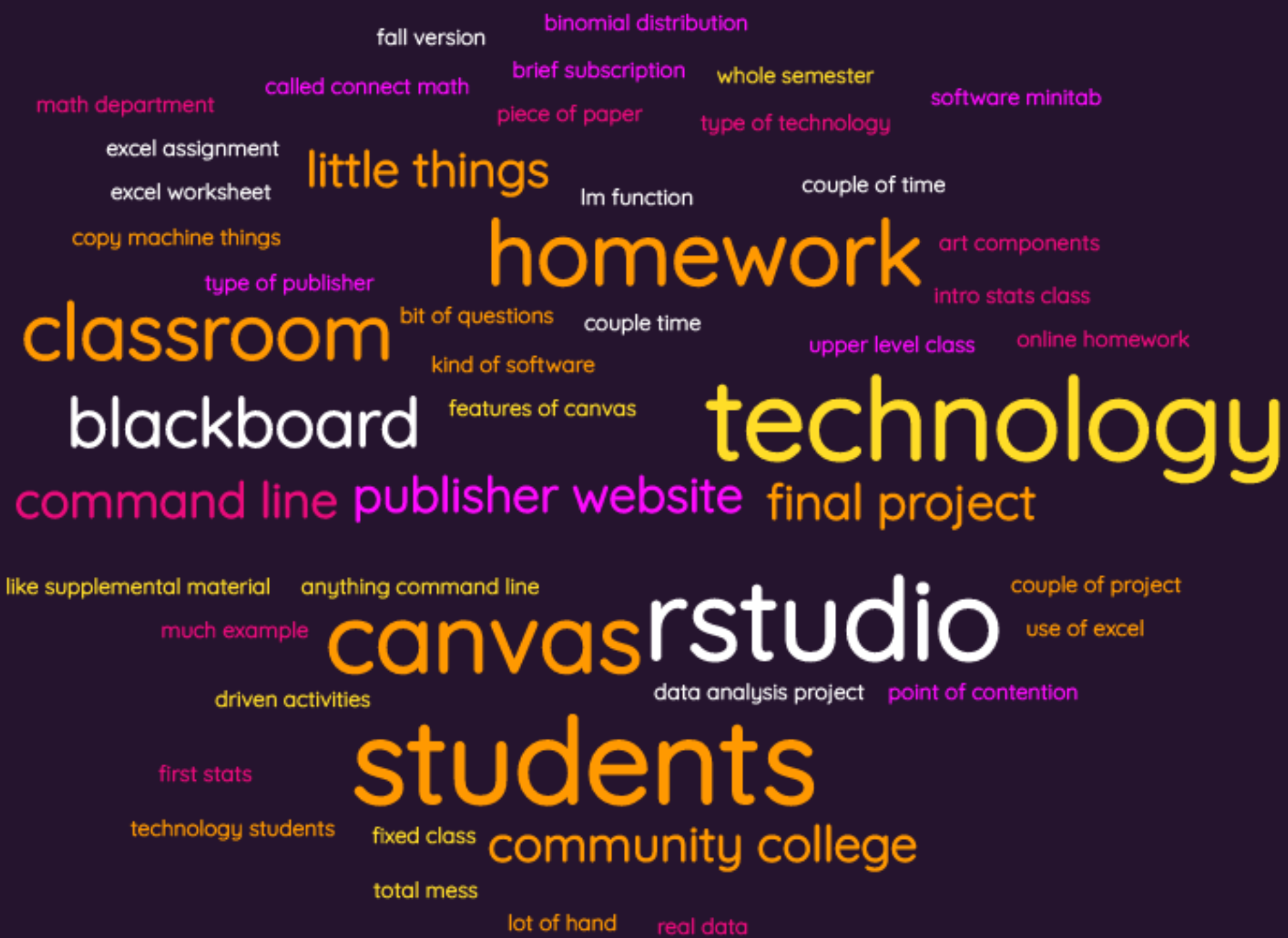


Adjunct Faculty and Technology in Statistical Education: A Qualitative Study

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Literature Review

- The adjunct faculty phenomenon has grown steadily in contrast tenure track positions have decreased considerably (*Facts about Adjuncts*, n.d.; Wallis, 2018).
- Research on adjunct faculty is varied focusing on the high percentage of adjuncts currently teaching at the university level, job satisfaction, professional development needs and institution integration (Gray, 2017).
- Rahman et al (2020) focused on part-time faculty teaching core courses, such as Pre-Calculus, interviewing part-time faculty to understand their job satisfaction. Rahman et al. (2020) suggested that for universities to improve STEM education adjunct's professional development also needs to be developed.
- GAISE guidelines on utilizing technology and "real" data for introductory statistics courses.

Data Collection & Analysis

- Data was collected after IRB approval. Participants were sought out through three different ways: reddit, the Consortium for the Advancement of Undergraduate Statistics Education listserv and via snowball.
- Transcriptions
- Data analysis was done in NVIVO.
- N = 15

graduate students

nursing

biological statistics

sociology

biological science

common core course

grade students

biostatistics

geostatistics

data science

business statistics

phd

statistics

statistics mathematics

adjunct instructor

psychology

biostats

adjunct full time

graduate

adjunct instructor part

intro

mathematics

instructor part time

full time

professor

psychological statistics

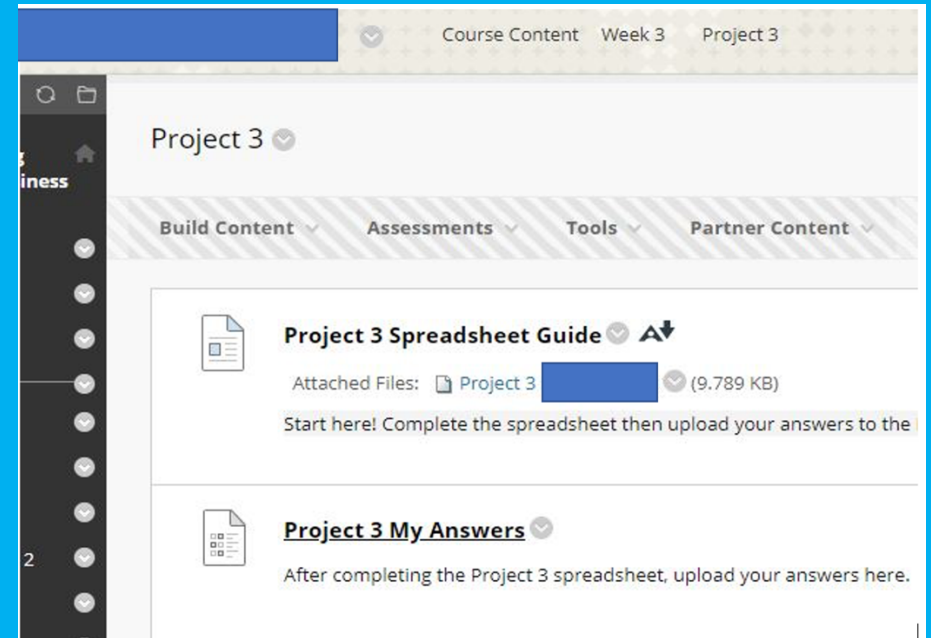
analyst

master

geography

Findings & Practical Implications

- Paper/Pencil Exams (minority)
 - Blackboard or publisher websites
 - Open book/Open notes assessments
- Variety of software was mentioned
 - Minitab, R (R Studio), Excel
 - STATKEY
 - Free resource
 - Useful way to create different 'datasets'



Selected References

- Franklin, C., Kader, G., Mewborn, D., Moreno, J., Peck, R., Perry, M., & Scheaffer, R. (2007). Guidelines for assessment and instruction in statistics education (GAISE) report.
- Rahman, Z. G., Murray, E., & Golnabi, A. H. (2020). Adjunct mathematics instructor resources and support contributing toward job satisfaction. PRIMUS, 1–17.
- Gray, S. (2017). Organizational integration of part-time faculty teaching developmental mathematics