THE MEASURMENT OF STUDENT WORKLOAD

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1. PROBLEM

The workload of students is crucial for for the organization and the (international) comparability of curricula. In spite of the existence of corresponding administrative regulations the measurement of workload and the necessary methodological knowledge at German universities is barely existent. Hence, the focus of this pilot study is of methodological nature.

Objectives

- Comparison between measurement via conventional paper diary and the measurement via a smartphone app diary
- Comparison of the measured diary workloads with the prospective and retrospective self assessments of the respondents
- Determine whether short observation periods result in robust workload estimations

2. APPROACH & SAMPLE

- Population: active students who major in sociology
- Two observations: **O1** in July 2014 (exam period) & O2 in November/December 2014
- Duration: 3 weeks per observation (2 weeks per respondent)
- Realized sample: 109 (**O1**) and 127 (**O2**)
- Prospective self assessment on first page of the paper diary/after first start of the app
- Retrospective self assessment via online questionnaire after the survey finished (matching via "Token")
- Incentivation: all participants took part in a raffle (prizes: smartphones and tablets)

6. CONCLUSIONS

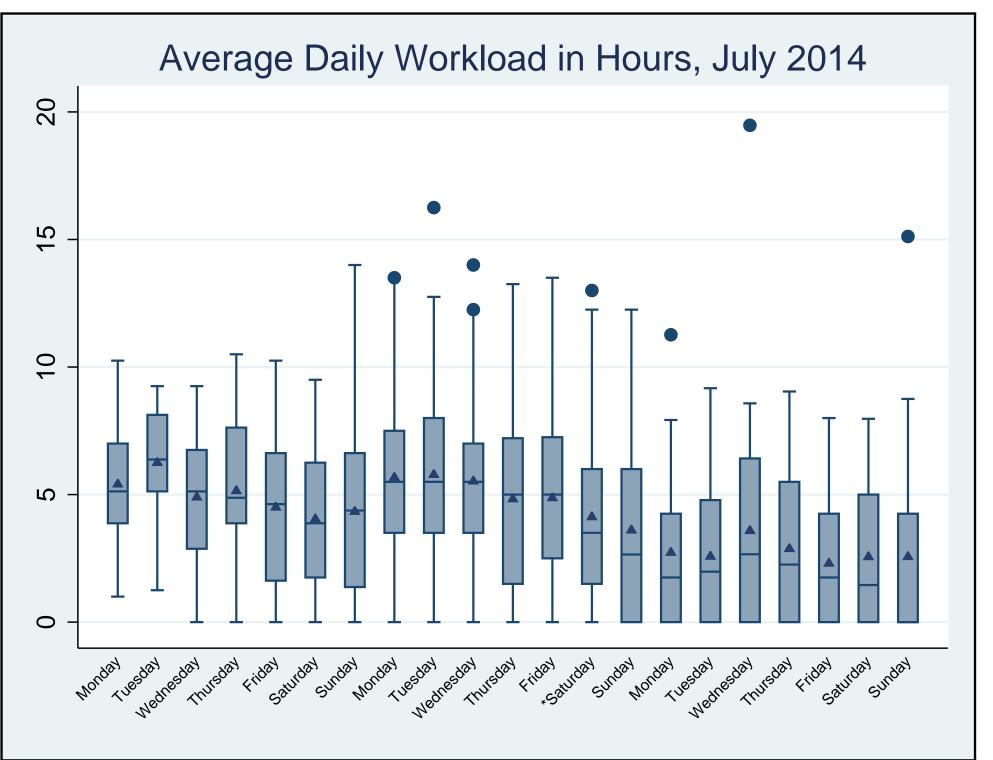
- Concerning sociology majors, there is no evidence that supports the frequently expressed thesis of "overworked students"
- Two short observation periods in the midsemester and during the exam period provide surprisingly accurate workload measurements
- Retrospective self assessments provide good estimates, however further (experimental) research is necessary to confirm these results
- After initial problems the app produces data of good quality, yet the measurement via paper diary is still more accurate
- Since smartphones and tablets become more widespread, further research is advisable
- Smartphone apps may provide superior possibilities for future studies (e.g. tracking)

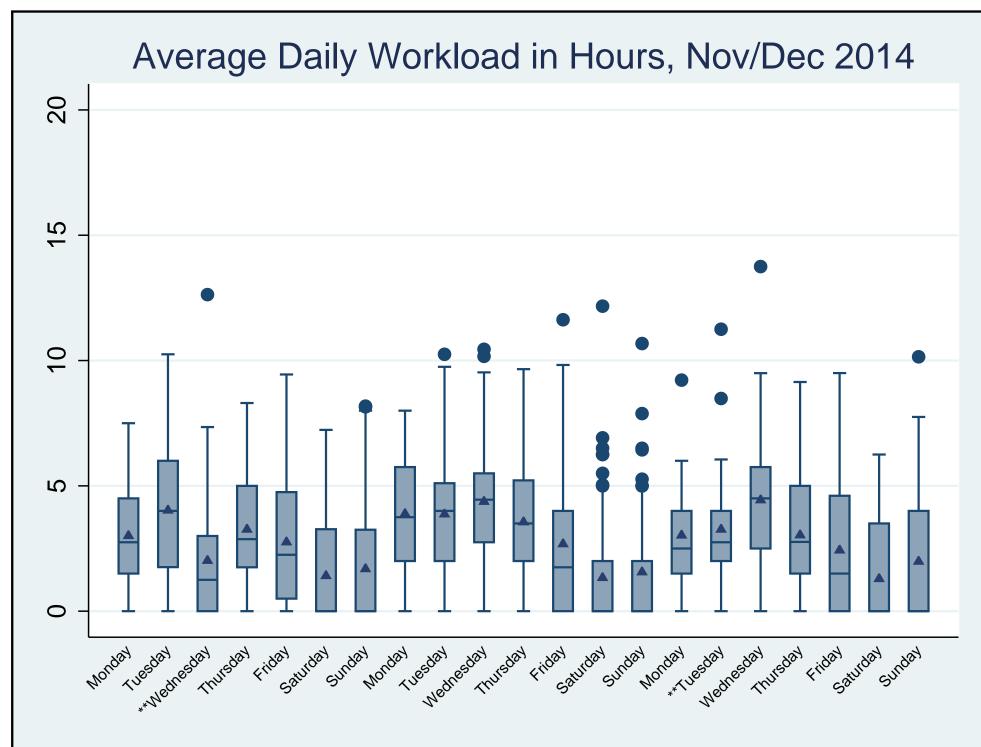
REFERENCES

- [1] Schulmeister, R. & Metzger, C., 2011: Die Workload im Bachelor: Zeitbudget und Studierverhalten. Münster: Waxmann.
- Berger, R. & Baumeister, B., 2015: Messung von studentischem Workload: Methodische Probleme und Innovationen. To be published in: Großmann, D. & Wolbring, T. (Ed.): Evaluation von Studium und Lehre. Grundlagen, methodische Herausforderungen und Lösungsansätze. Wiesbaden: Springer VS.

We would like to thank the company appPlant for providing the workload app!

3. DESCRIPTIVE OVERVIEW

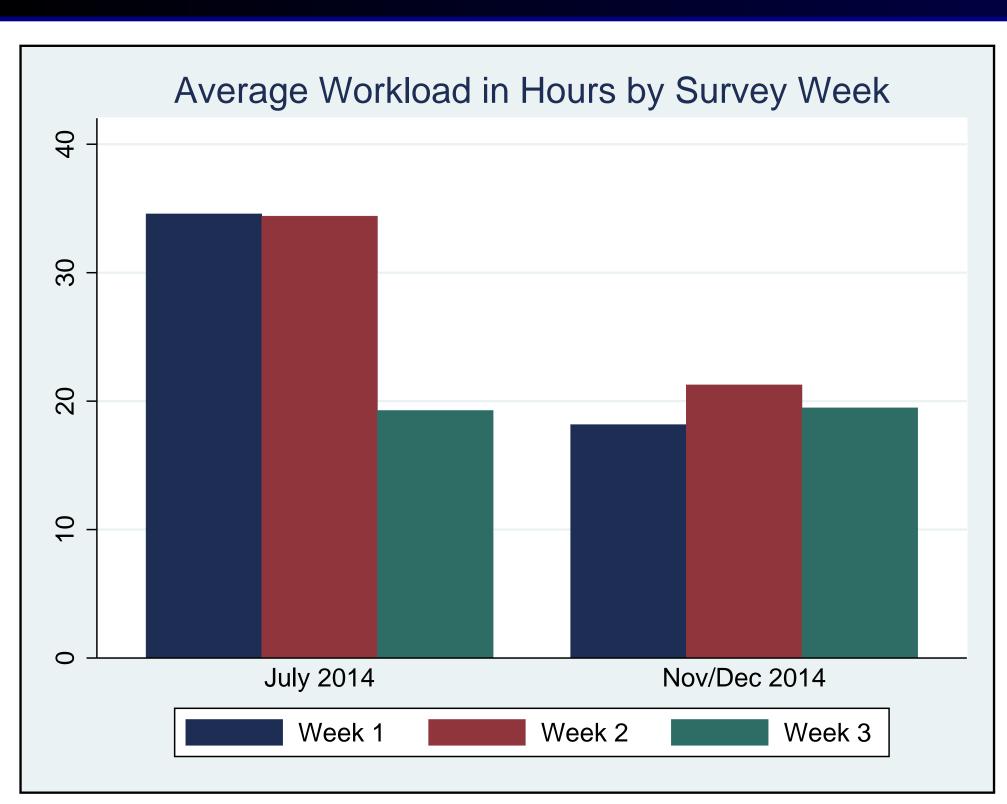


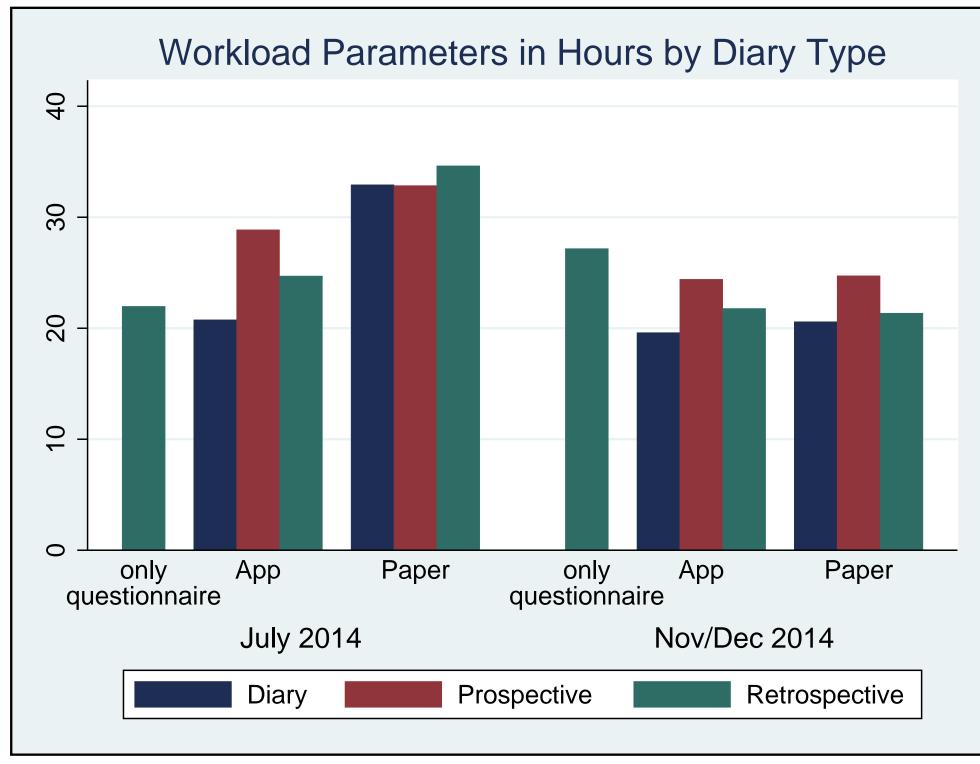


▲: means, *: beginning of semester break, **: lecture free

During the first two weeks of **O1** the measured workload is close to the administrately projected workload of 40 hours per week. Unsurprisingly, this changes with the beginning of the semester break. However outside the exam period the measured workload is only about 50% of the projected value.

4. METHODOLOGICAL FINDINGS: WORKLOAD



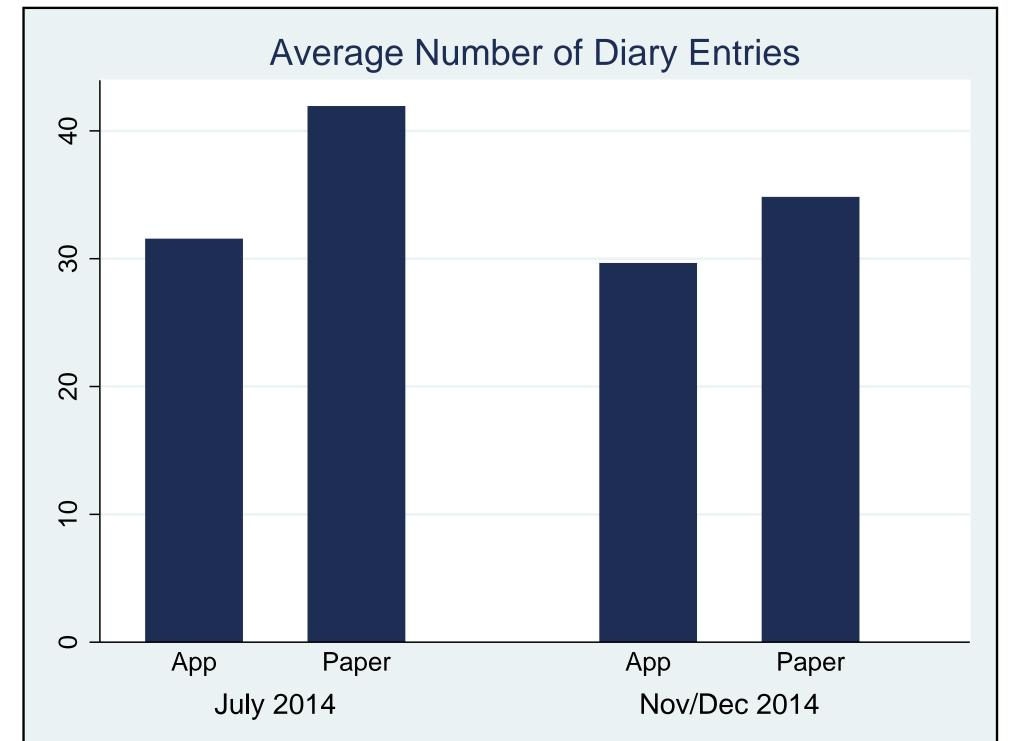


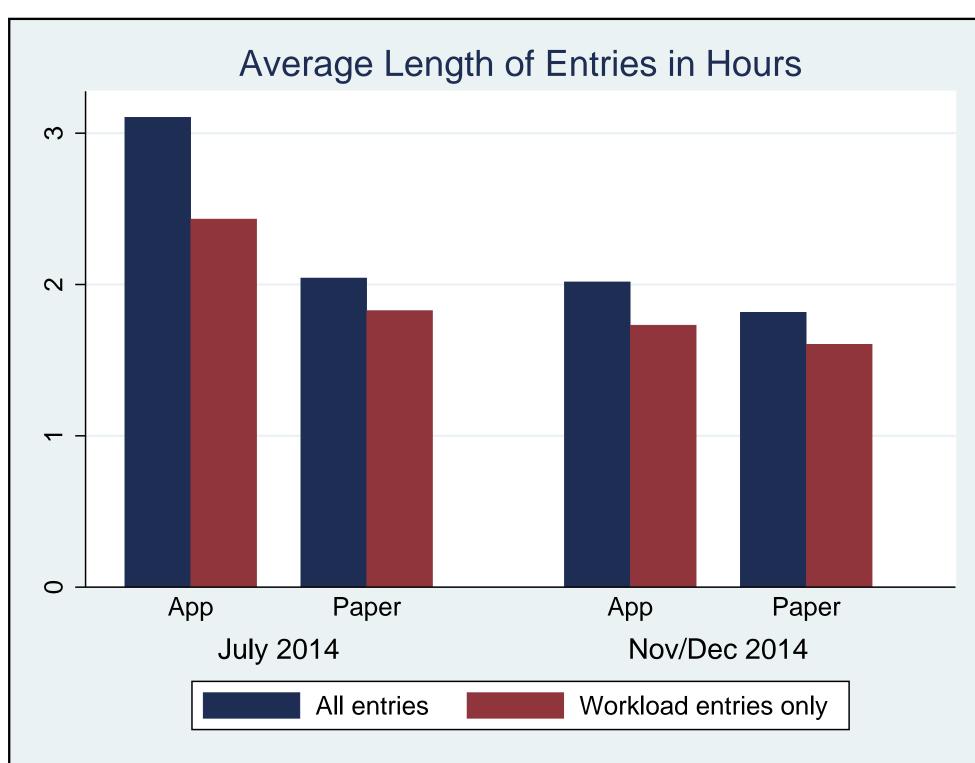
The first two weeks of **O1** coincided with the thus the stark differences between the two meexam period, explaining the high workload. thods. In O2 the measurements are almost iden-The differences between the average weekly tical. workloads in non-exam-weeks are strikingly The prospective and retrospective self assmall. It is therefore advisable to refrain from sessments of the participants are surprisingly conducting lengthy (and expensive!) workload close to the values measured via diary. But: the assessments over several months. Measurement respondents knew about the (imminent) survey, during a usual and during a "busy week" seems which in turn influenced their self assessment. to be sufficient for getting an accurate overview. The retrospective self assessment of those who of the workload distribution.

of valid cases that used the app in O1 (n=11), dy (\rightarrow may also be selection bias).

only completed the questionnaire differs signifi-Technical difficulties caused a low number cantly from those that did participate in the stu-

5. METHODOLOGICAL FINDINGS: ENTRIES





the app. According to this assumption the dis- with the app.

Rule of thumb: diaries with a comparatively crepancies in data quality in O1 are comparatlarge number of short entries are usually more ively high. Although the picture isn't as bad in accurate [1]. Less entries of longer duration hint O2, the data measured with a paper diary are towards technical or usability problems with still of higher quality than the data measured