CROSS TEACHING AND INQUIRY-BASED LEARNING IN VIRTUAL GROUPS



- 1. Background
- 2. Learning Setting
- 3. Research Design and Process Model
- 4. Results and Discussion

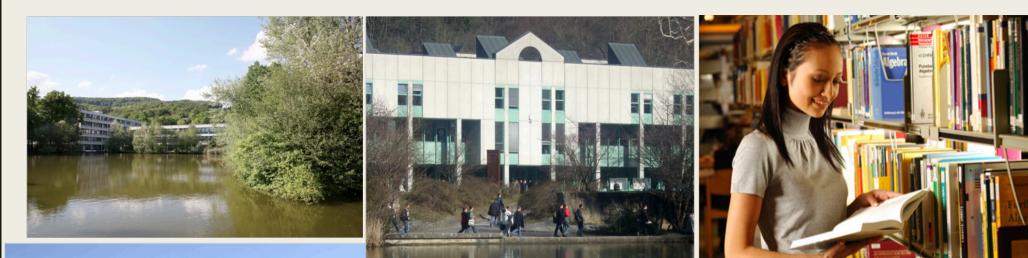
BACKGROUND

Magdeburg-Stendal University University of Linz



Linz Magdeburg Stendal







J⊻U

JOHANNES KEPLER UNIVERSITY LINZ



LEARNING SETTING

Scientific Paper Writing Course Peer Review as a Learning Method



Scientific Paper Writing course

3 courses:

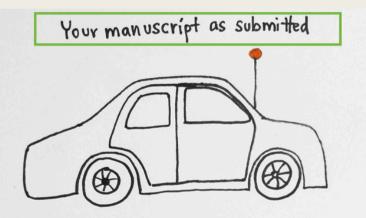
Master Digital Business Management (University of Linz), Master Cross Media (Magdeburg-Stendal University), Master Risk Management (Magdeburg-Stendal University)

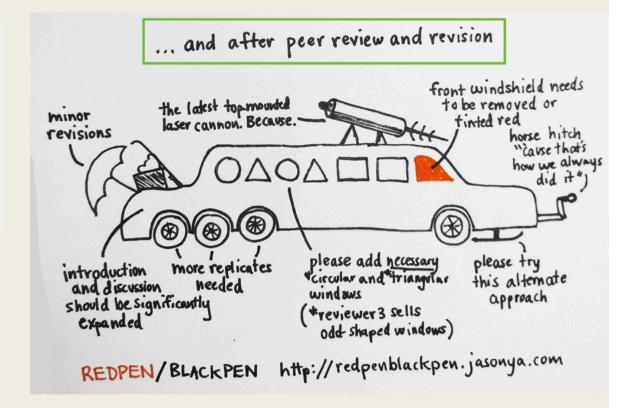
- designed for professionals, high technical affinity, media competency
- 13 interuniversity learning groups
- special incentive:

research workshop

Participation and presentation at Conference #TCCM, publication

Peer Review



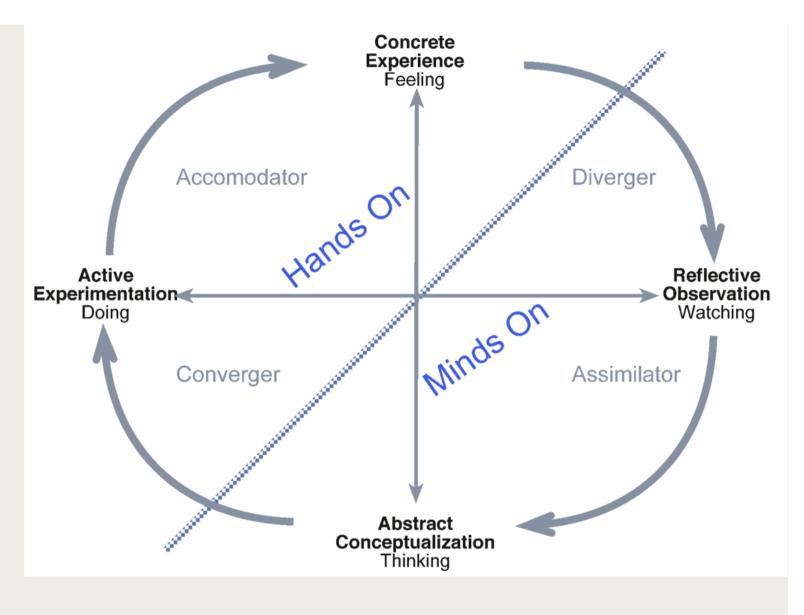


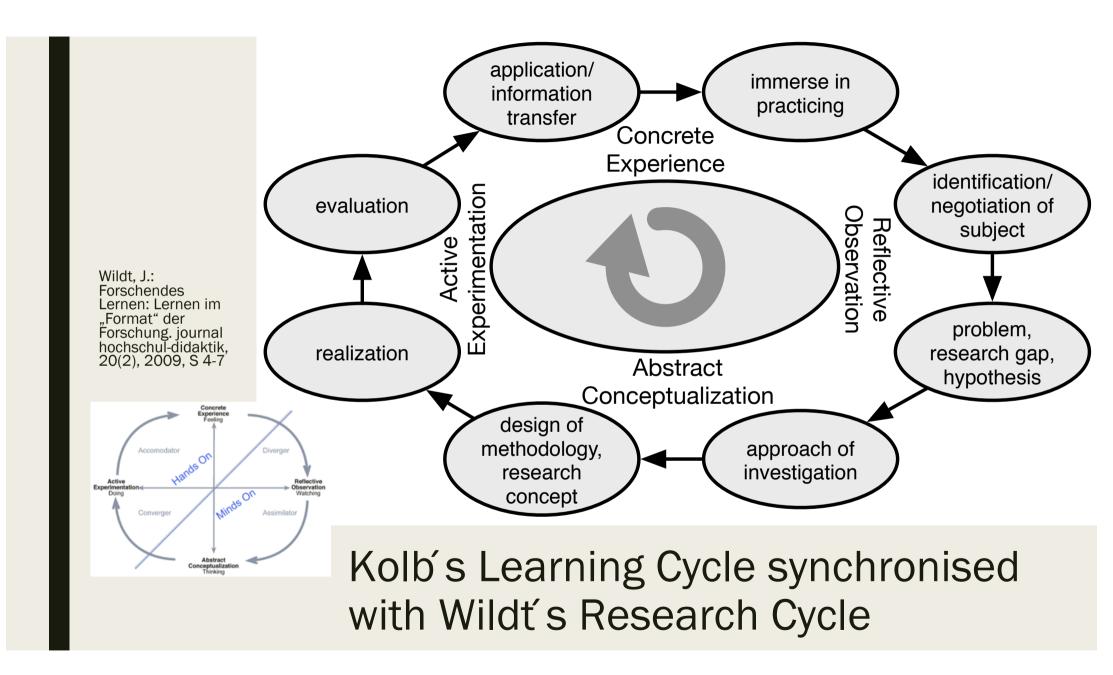
RESEARCH DESIGN AND PROCESS MODEL

Learning Model Process Model Implementation of the course

Kolbs Experiential Learning Cycle

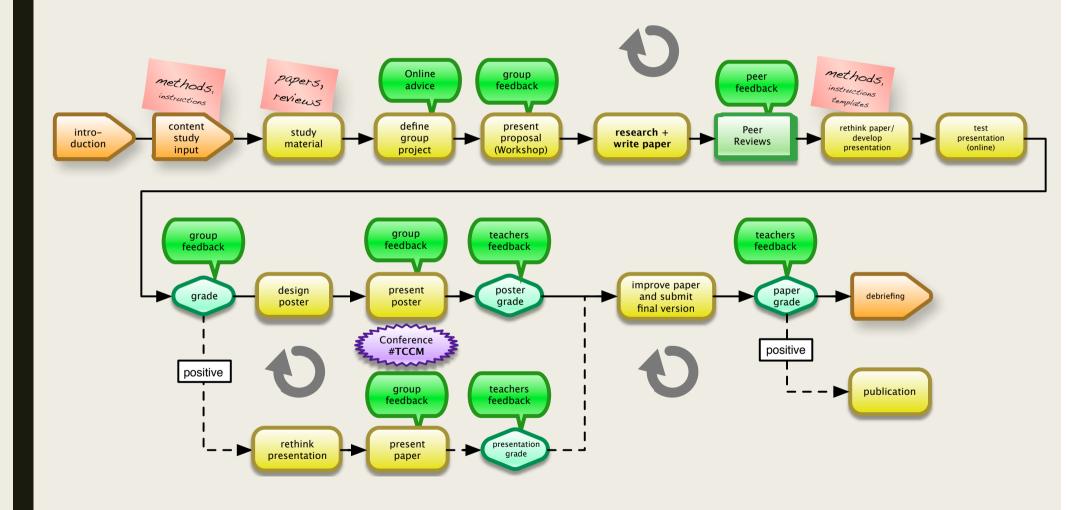
Kolb, D. A. (1984) Experiential Learning: Experience as the Source of Learning and Development, Prentice-Hall, Inc., Englewood Cliffs, N.J.



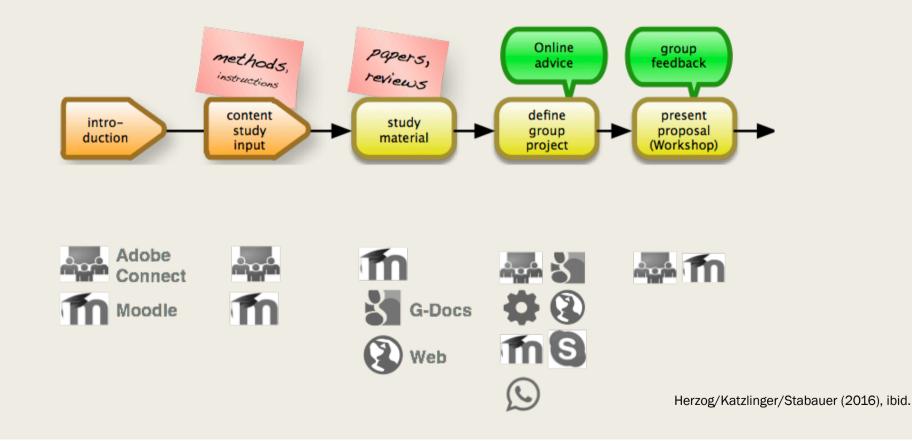


Research process

Herzog/Katzlinger/Stabauer (2016): Embedding Interuniversity Peer Review in Virtual Learning Groups, A Research-based Learning Scenario. In: Wu TT., Gennari R., Huang YM., Xie H., Cao Y. (eds) Emerging Technologies for Education. SETE 2016. Lecture Notes in Computer Science, vol 10108. Springer, Cham



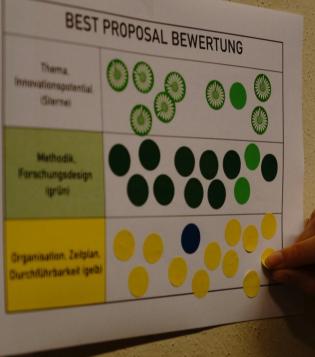
First Section of the Learning Cycle





Research Workshop JKU Linz

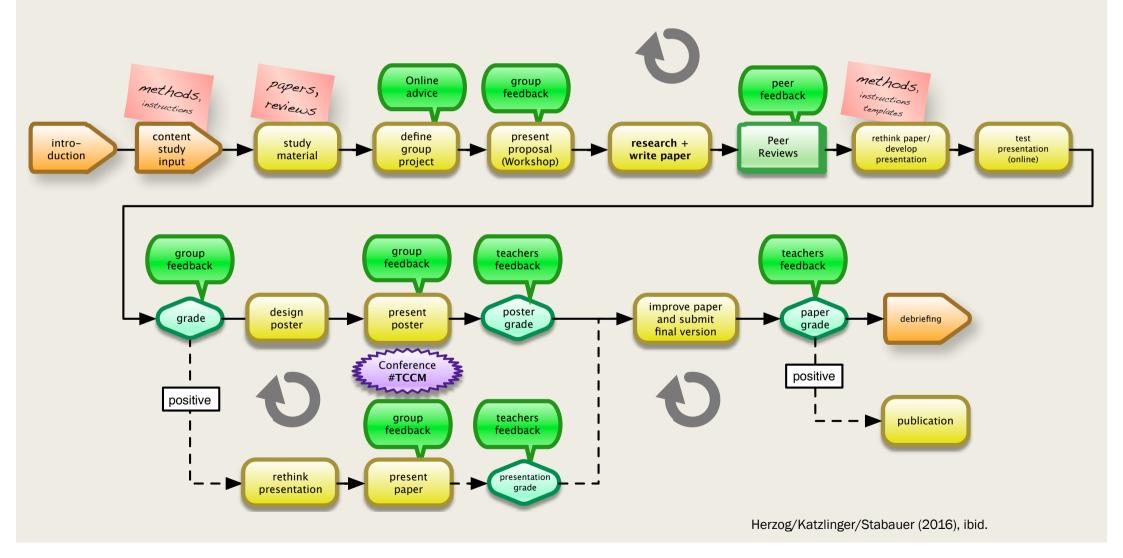


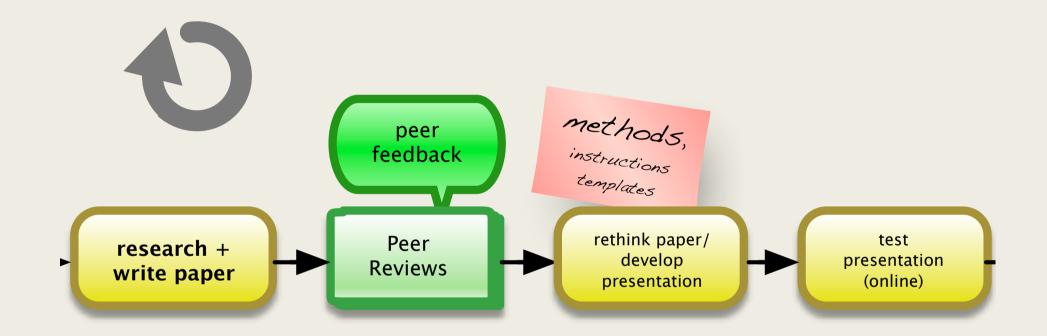


Research Workshop JKU Linz

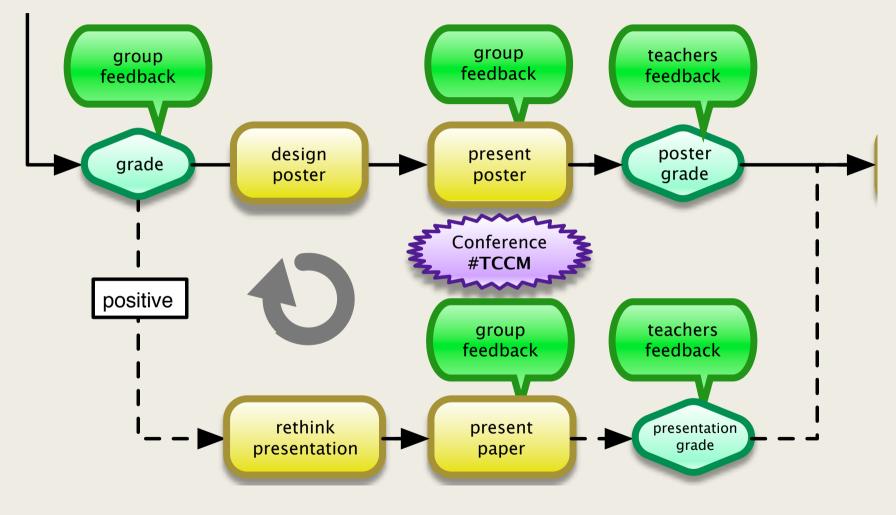


Research process





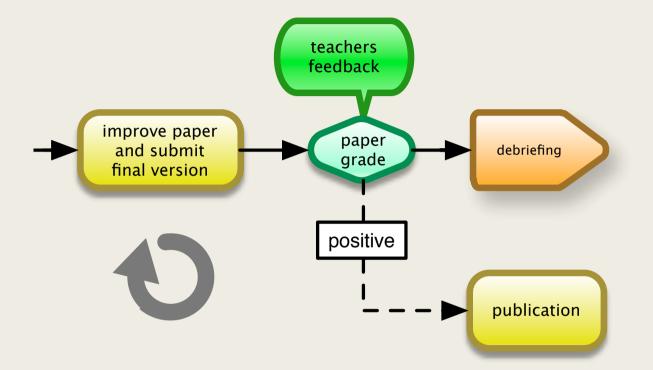
Herzog/Katzlinger/Stabauer (2016), ibid.



Herzog/Katzlinger/Stabauer (2016), ibid.

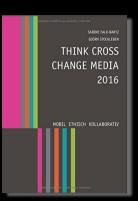


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Herzog/Katzlinger/Stabauer (2016), ibid.

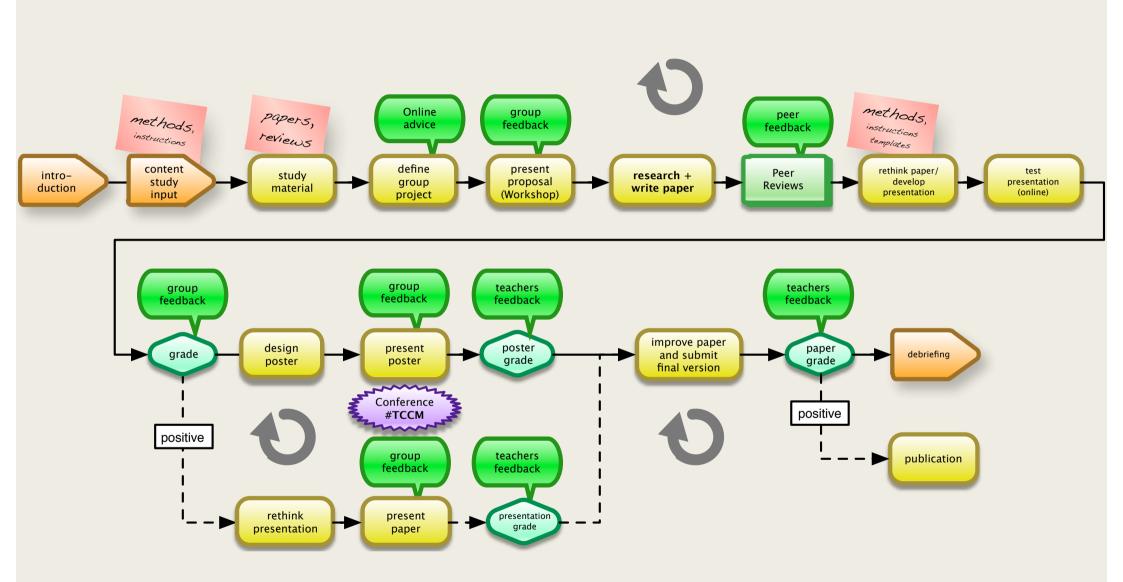




#TCCM Conference, Magdeburg, Feb. 2016

Research Design • Process Model • Conference

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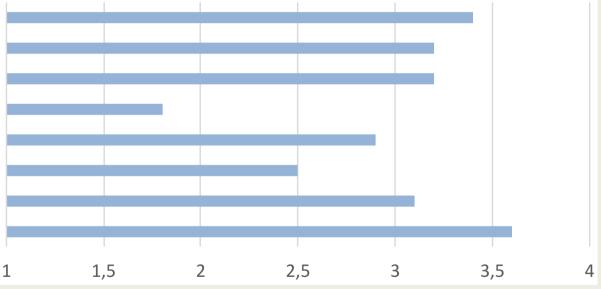
Herzog/Katzlinger/Stabauer (2016), ibid.

RESULTS & DISCUSSION

Students' feedback Tools Analysis of the Peer Reviews

Students' rating of Peer Review as a learning method

Peer Review as learning method Peer review in general Effort-benefit ratio Enjoyment Personal Learning Outcome Peer Review for learning virtual collaboration Peer Review as enrichment of learning situations Peer Review to train assessment skills



^[1] poor, ... , [4] excellent

Peer review – Qualitative evaluation

»The Peer Review process was a very special experience, because the **feedback** of our colleagues was extremely **honest, comprehensive and inspiring**.«

»Drafting a Peer Review and the associated **intensive work with another groups' paper** was very interesting and rewarding.«

Interregionality, Interdisciplinarity

»Various approaches and educational background of group members were absolutely beneficial. That way, we had a great mix of ideas, methods and strengths, that we could coordinate and distribute the diverse tasks accordingly.«

»Just like in professional life, you can't always choose with whom you want to work together and you might come across **difficult characters** or people you can't get along very well.«

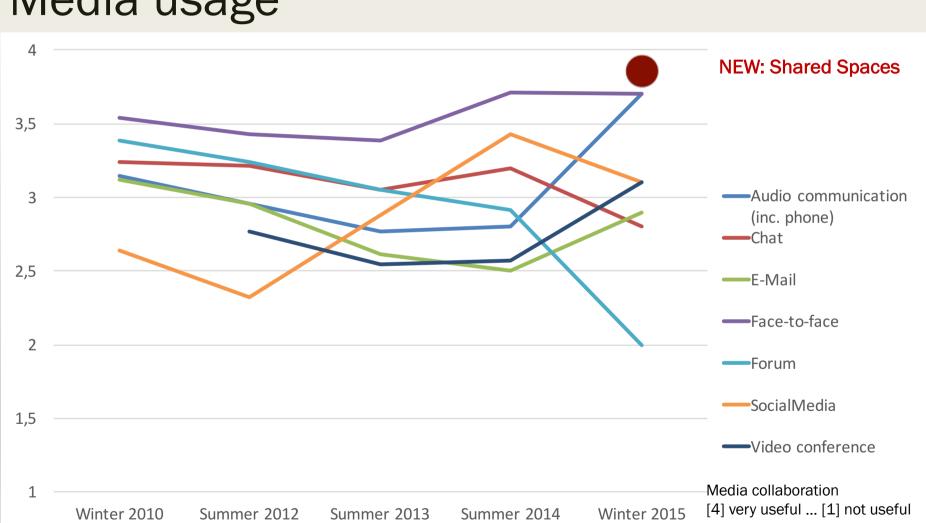
Learning method

»Even though the development of this paper was **more demanding** than any other during my studies, I would recommend the cooperation with the university in Magdeburg for the coming years.

The chance to present our paper at the **Cross Media Conference** was great and will not repeat itself too quickly.

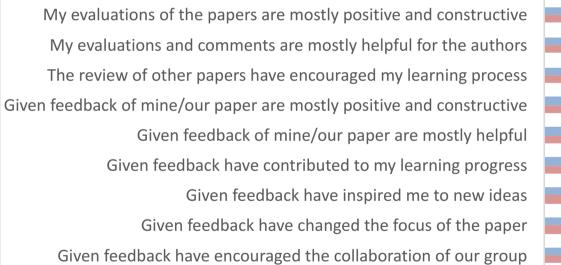
The **work in virtual teams** was rewarding, even though not always simple, and might turn out helpful in modern professional environments.«

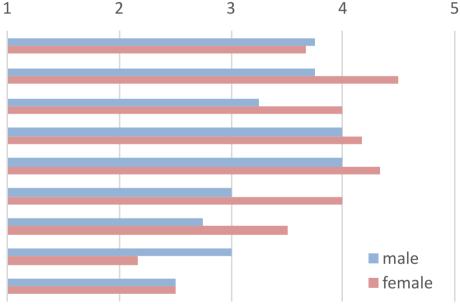
Herzog/Katzlinger/Stabauer (2016), ibid.



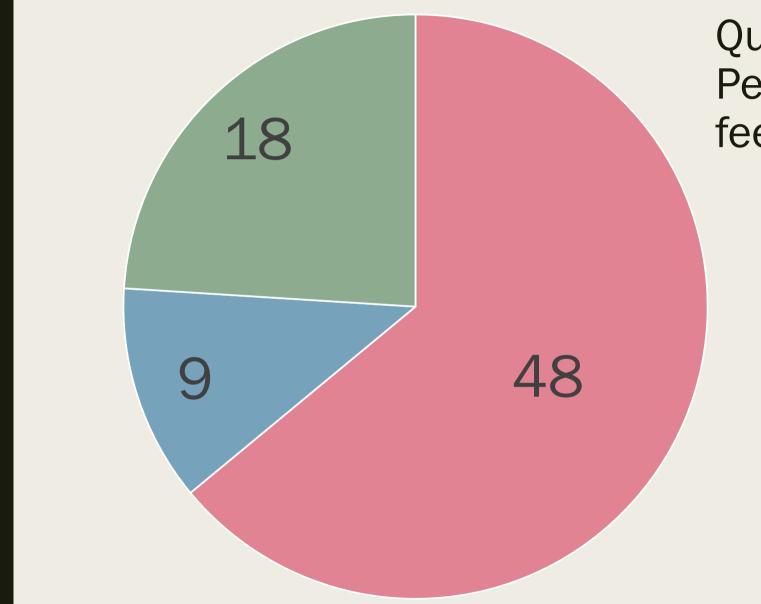
Media usage

Students' rating of Peer Review feedback





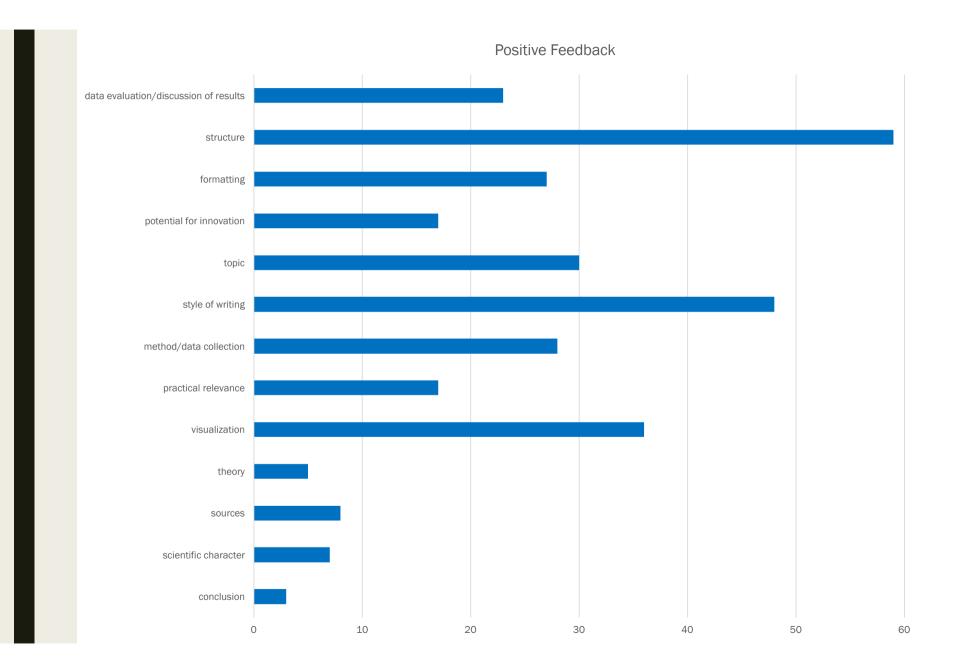
^[1] poor, ... , [5] excellent

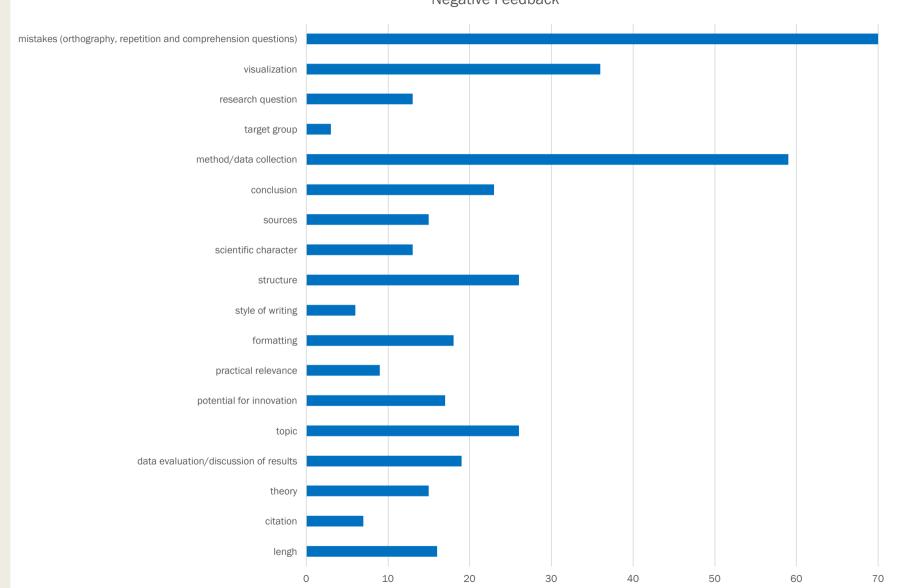


Quality of Peer Review feedback

adequately helpful

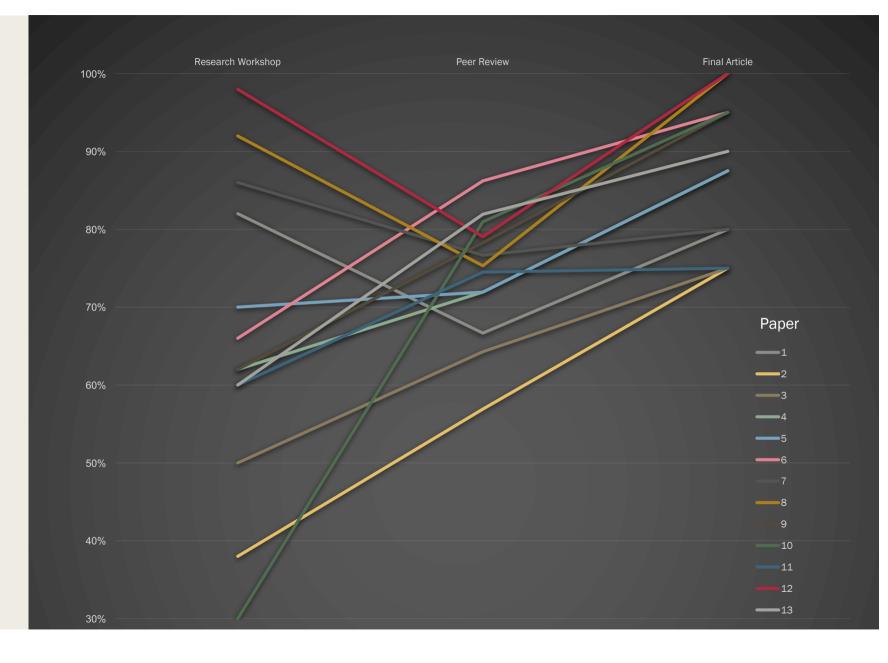
- very helpful
- not helpful





Negative Feedback

Paper development



Lessons learned and to be learned

- Investing in learning process design pays back.
- Peer Review is a proofed and technically well supported method that scales easily.
- Set of criteria for PeerReview is a key success factor for the learning process.
- The presented research based learning scenario is demanding in time and resources, but provides the best learning outcomes.
- Allow students to revise their work.
 Peer Review is a chance to learn more from feedback.
- Complement virtual collaboration by face-to-face meetings.
- Provide a motivational incentive.
 Thereby, challenges with higher workloads are accepted.

THANKS!!!

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