



"In 2013, research had already indicated that MOOCs offered unprecedented choice, customization and gave thousands of participants the possibility to have greater ownership and control over their learning experiences "rather than being constrained by centralized, instructor-controlled learning based on delivery of prefabricated curriculum" (McLoughlin, 2013). (p. 78.)

19



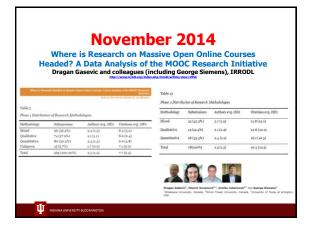
2015

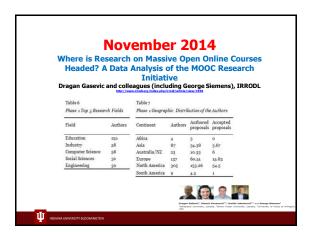
Instructional quality of Massive Open Online Courses (MOOCs).
Margaryan, Bianco, & Littlejohn, Computers & Education, 80, 77-83.

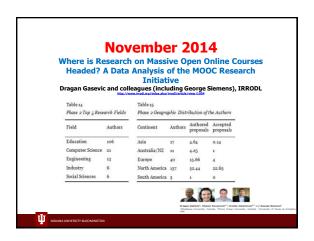
"As MOOCs proliferate, drawing in increasing numbers of faculty and learners worldwide, the issue of their instructional quality becomes increasingly pressing." (p. 82)

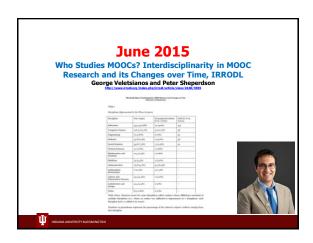


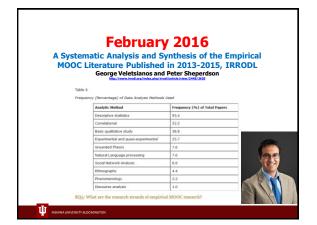


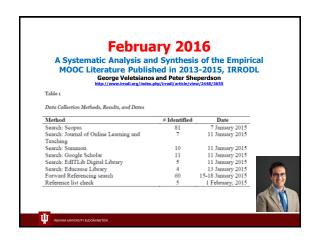


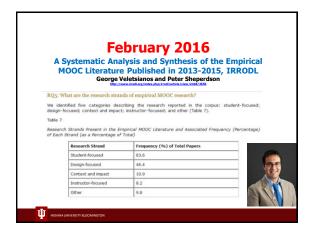


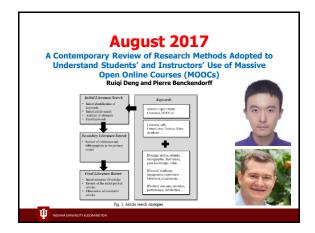


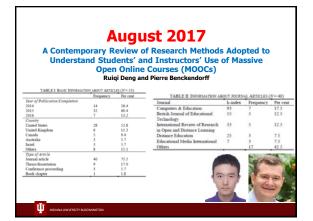


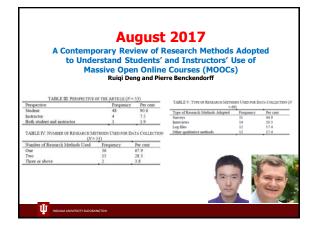










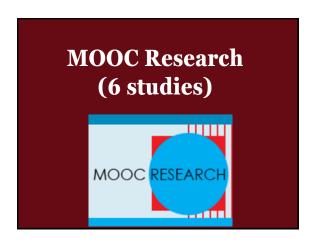


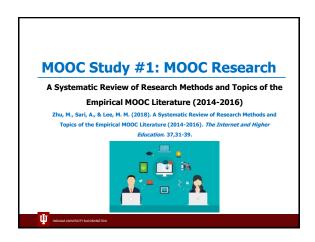
August 2017 A Contemporary Review of Research Methods Adopted to Understand Students' and Instructors' Use of Massive Open Online Courses (MOOCs) Ruiqi Deng and Pierre Benckendorff, International Journal of Information and Education Technology, 7(8), 601-607. "There are a number of research avenues which could be explored based upon the findings of this study. First, additional research strategies should be considered to understand students' and instructors' experience in using MOOCs." (p. 605)



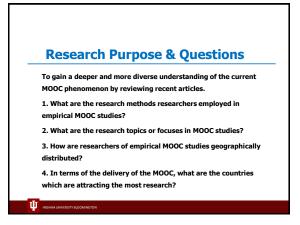




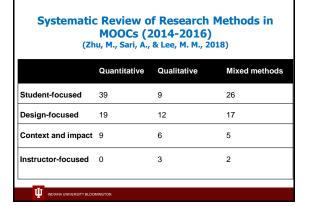


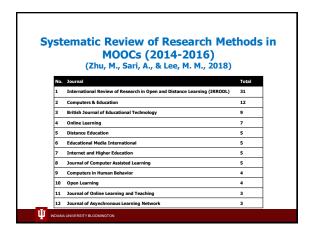






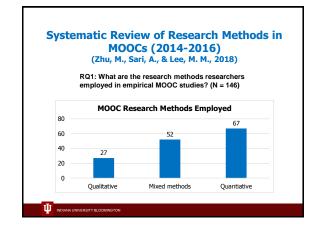


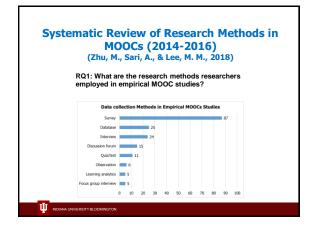


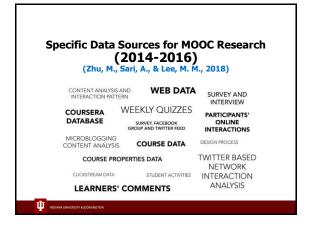


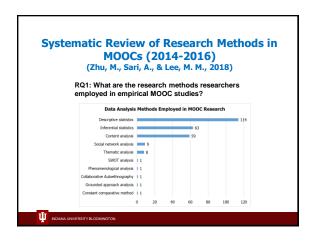


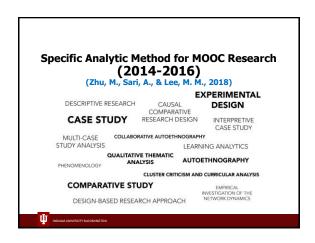


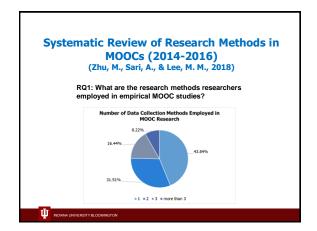


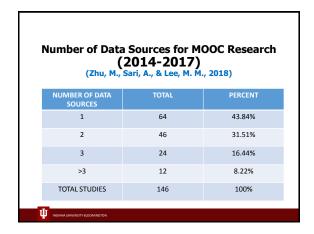


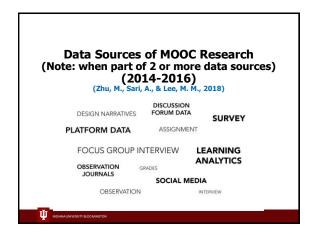


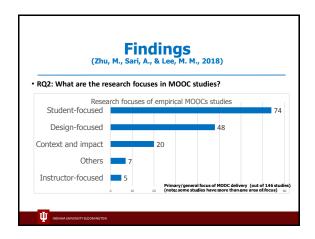




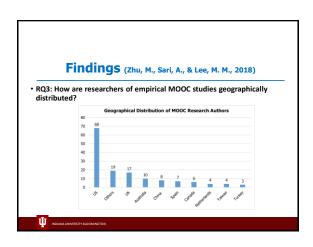


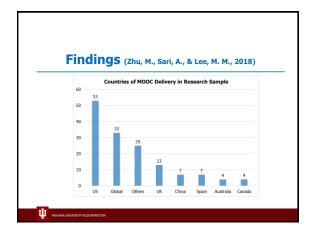














February 2016

A Systematic Analysis and Synthesis of the Empirical MOOC Literature Published in 2013-2015
George Veletsianos and Peter Sheperdson, IRRODA, 17(2), 198-221

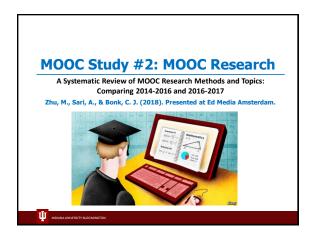
**Based on these results, we suggest that an expansion of the methodological approaches used in MOOC research is urgently needed. Given that research into MOOCs is expected to inform learning in all environments and not just MOOCs (Rose et al., 2015; Singer, 2014), a broader methodological toolkit is imperative." (p. 214)

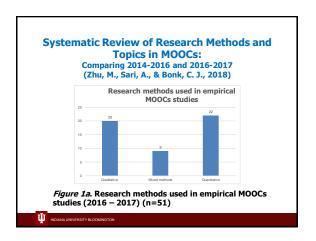
February 2016

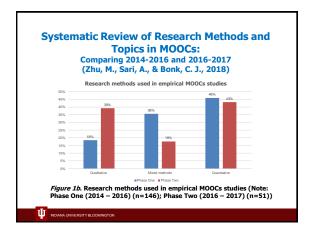
A Systematic Analysis and Synthesis of the Empirical MOOC Literature Published in 2013-2015

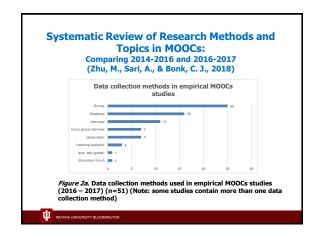
George Veletsianos and Peter Sheperdson, IRRODL, 17(2), 198-221

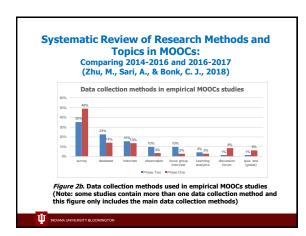
"Fruitful future research endeavors in this area may focus on examining how particular methodologies have shaped the field, whether research methods are favored by researchers from particular disciplines, and some conferences and journals more than others distort the dominant narratives in the literature." (p. 214)

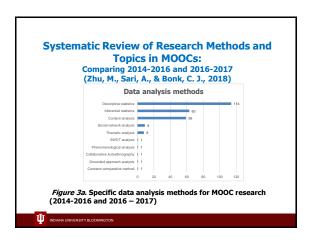


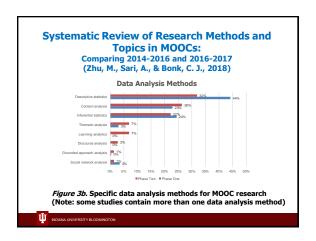




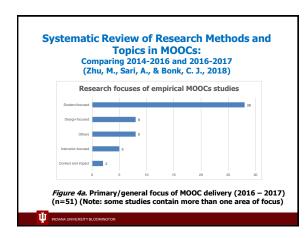


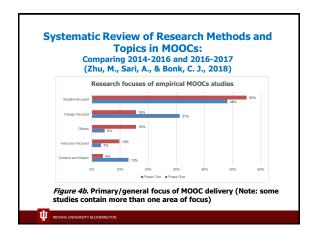


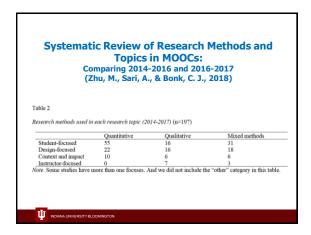


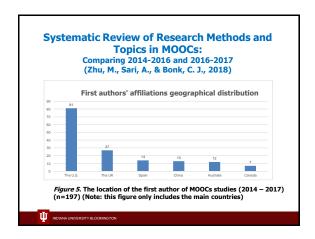




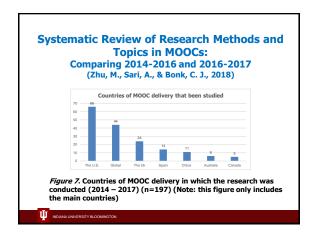








Systematic Review of Research Methods and Topics in MOOCs: Comparing 2014-2016 and 2016-2017 (Zhu, M., Sari, A., & Bonk, C. J., 2018) Collaboration among authors Figure 6. Collaboration among the authors of MOOCs studies (2016 - 2017) (n=51)



October 2015

Predictors of Retention and Achievement in a Massive Open Online Course

Greene, Oswald, & Pomerantz American Educational Research Journal, *52*(5), 925-955.

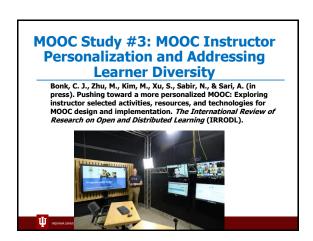
"If MOOCs are to fulfill their promise as a way of providing all learners with opportunities to obtain education at a low cost, much more research is needed regarding how to engage these students and help them to be successful in these environments." (p. 952)





Research Background

- · MOOCs can be beneficial to both learners and instructors
 - (Hew & Cheung, 2014)
- · Instructors are one of the five main components of MOOCs; the other four are learners, topic, material, and context (Kop, 2011)
- · Few studies have examined instructional design from MOOC instructors' perspectives (Margaryan et al., 2015; Ross, Sinclair, Knox, Bayne, & Macleod, 2014; Watson et al., 2016)



Research Purpose

This study explores instructor motivations for offering MOOCs and the design innovations in MOOCs to better understand MOOC design practices and to provide suggestions for future MOOC instructors.



Study #3: Findings Recap 1. There is a lack of learner monitoring and feedback (i.e., mostly self and peer monitoring/feedback). 2. More emphasis on personalization in the design of the course than in the delivery of it. 3. Subtitles and transcripts are the most common ways to address cultural and linguistic differences. 4. Automated grading and feedback more prevalent than automated alerts, advice/counseling, and plagiarism detection. 5. Instructors have high interest in learning techniques for personalization in their next MOOC.

Future Research Might Explore...

- Specific instructional design practices for personalization and cultural sensitivity (e.g., focus groups, content analyses, active participation in MOOCs, reviews of historical records, additional surveys, or a combo).
- How emerging technologies (AR, VR, personal digital assistants, and AI) can be used to address learner needs.
- Need to develop guidelines, frameworks, and models for more engaging, culturally sensitive, and personalized learning environments.

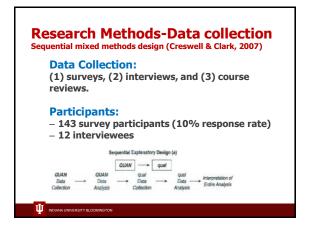


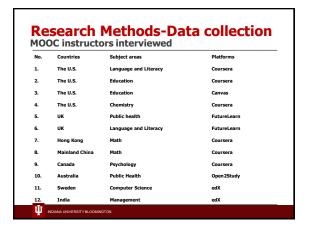
MOOC Study #4: MOOC Instructor Design Challenges and Considerations Bonk, C., J., Zhu, M., & Sari, A. (2018, April 14). MOOC Instructor Motivations, Innovations, and Designs: Surveys, Interviews, and Course Reviews. Paper presented at the 2018 American Educational Research Association (AERA) annual meeting, New York City, NY.

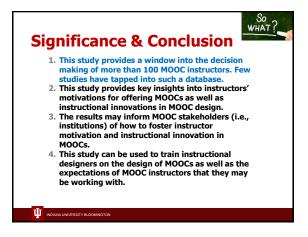
Research Questions

- 1. What motivates instructors to offer MOOCs?
- 2. What instructional innovations do MOOC instructors perceive?
- 3. What do instructors perceive as the strengths of their MOOCs?
- 4. How would they redesign the MOOC?





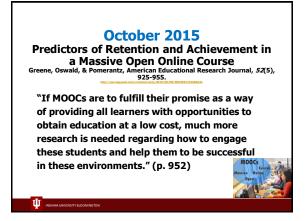


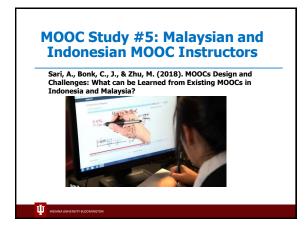


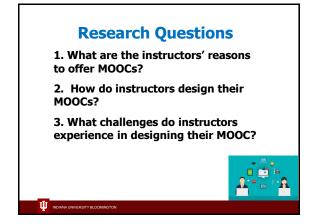
Future Research Might Explore...

- The relationship between instructor motivation and the types of instructional innovations in MOOC design.
- 2. Changes in MOOC instructor motivation across several MOOCs.
- MOOC instructor motivation by discipline, country, or region of the world.
- MOOC instructional professional development and instructor teaching skill changes from designing MOOCs.









Research Methods-Data collection

- Research Design: mixed method design (Creswell, 1999)
- Data Collection: Survey, interview, course review Webbased survey: 20 closed-ended questions + 2 open ended questions; 9 interview questions.
- Participants: 46 survey participants (15.6%) and 9 interviewees (3 Malaysian + 6 Indonesian)



Study #5: Findings Recap and Future Directions

- Primary motives, include: (1) personal interest, (2) research purposes, (3) experience teaching a large online course, (4) institutional encouragement, and (5) altruism.
- Offering recognition such as certificate, badge, points, or transfer credit to increase student enrollment.
- 3. Top challenges include encouraging collaboration, fostering engagement, video development, and time
- Future research might add perspectives from students, affiliated institutions, and MOOC providers

INDIANA UNIVERSITY BLOOMINGTO



