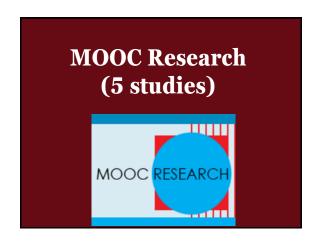
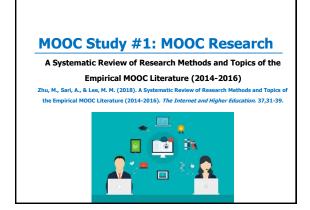


2015

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)

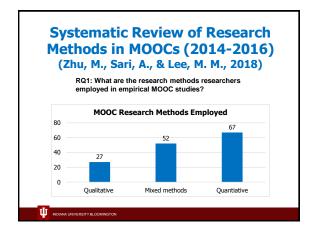


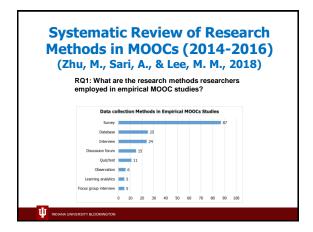


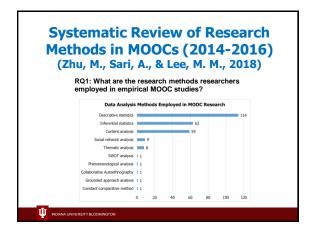
Systematic Review of Research Methods in MOOCs (2014-2016) (Zhu, M., Sari, A., & Lee, M. M., 2018)			
	Quantitative	Qualitative	Mixed methods
Student-focused	39	9	26
Design-focused	19	12	17
Context and impact	9	6	5
Instructor-focused	0	3	2
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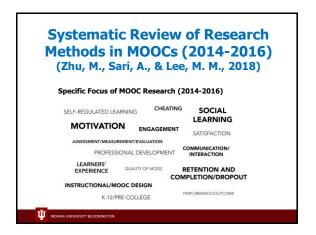




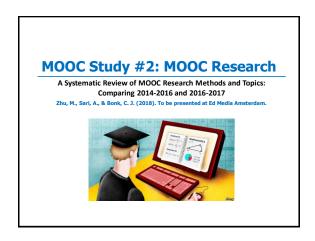


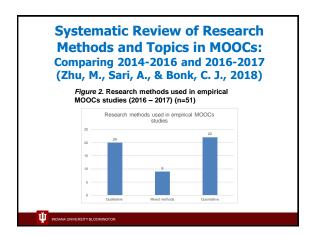


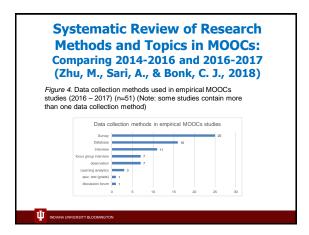


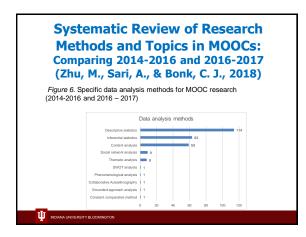


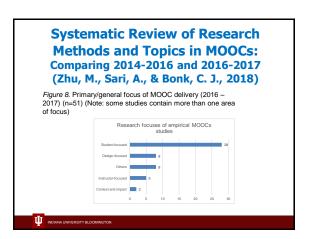












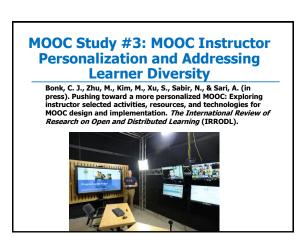
Systematic Review of Research Methods and Topics in MOOCs: Comparing 2014-2016 and 2016-2017 (Zhu, M., Sari, A., & Bonk, C. J., 2018) Figure 12. Countries of MOOC delivery in which the research was conducted (2014 – 2017) (n=197) (Note: this figure only includes the main countries)

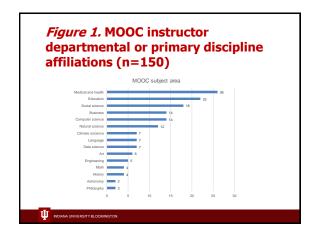
Next Steps Rationale... Research Background

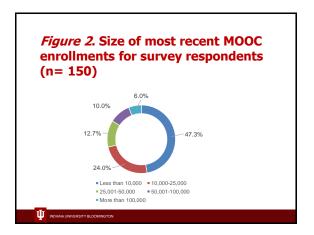
- MOOCs can be beneficial to both learners and instructors (Hew & Cheung, 2014)
- Instructors are one of the five main components of MOOCs; the other four are learners, topic, material, and context (Kop, 2011)
- Few studies have examined instructional design from MOOC instructors' perspectives (Margaryan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

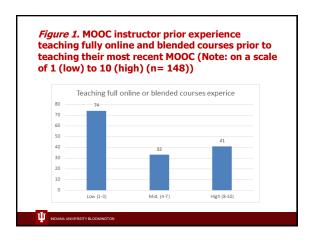


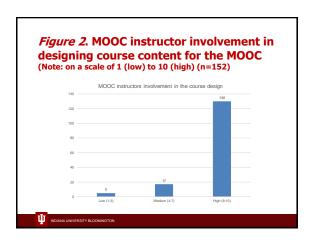


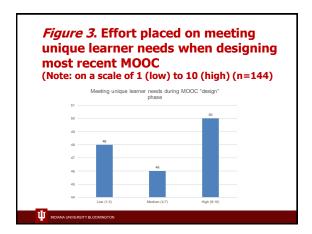


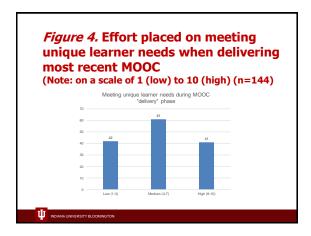


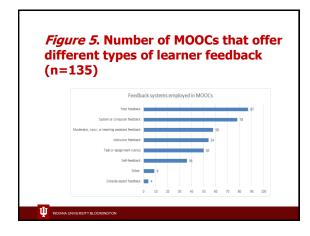


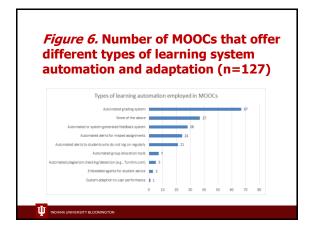


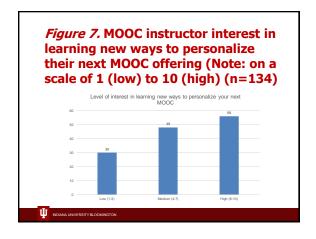


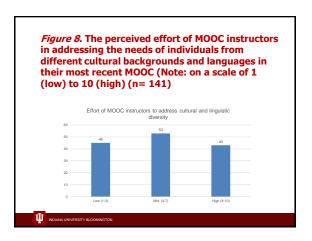


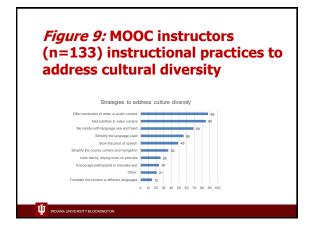


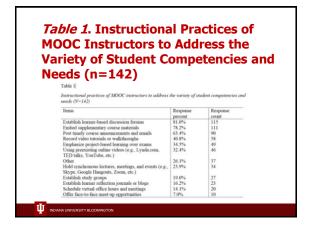


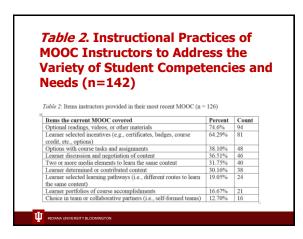


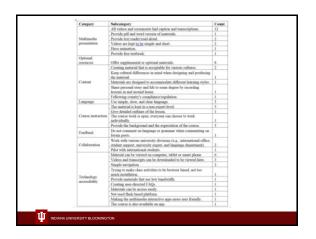












Study #3: Findings Recap



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- 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...

- 1. 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).
- 2. How emerging technologies (AR, VR, personal digital assistants, and AI) can be used to address learner needs.
- 3. 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?

Research Methods-Data collection

Sequential mixed methods design (Creswell & Clark, 2007)

Data Collection:

(1) surveys, (2) interviews, and (3) course reviews.

Participants:

- 143 survey participants (10% response rate)
- 12 interviewees

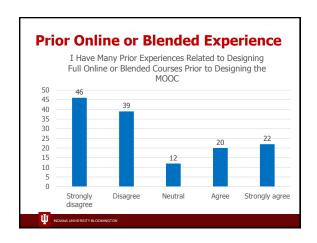
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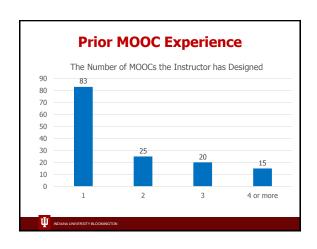
ential Explanatory Design (a)

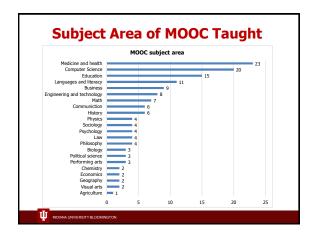
Research Methods-Data collection

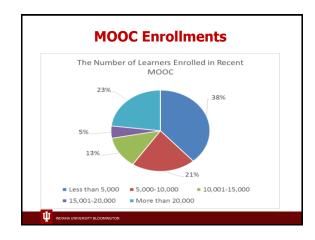
MOOC instructors interviewed

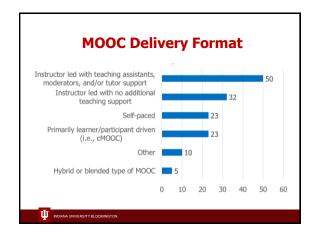
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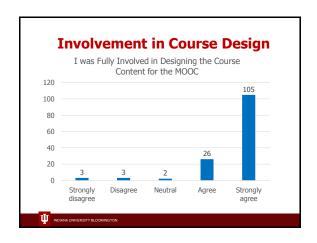


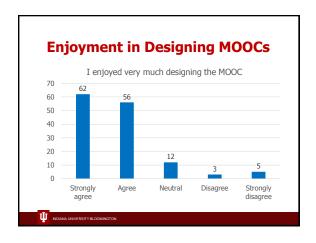


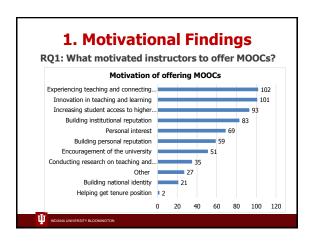






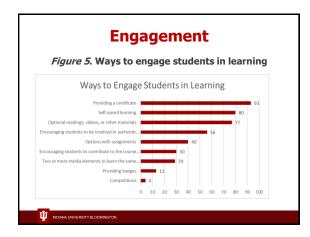






1. Motivational Findings RQ1: What motivated instructors to offer MOOCs? Many of them wanted to experience instructional innovation with MOOCs. U.S.: decided to design MOOCs "just to experiment." U.S.: "expose your university to broader world." Sweden: "summarizes our way to teaching Computer Architecture and then I was very motivated to give a MOOC." U.S. "The initial motivation was to make some video resources for my own students."

2. Innovation Findings RQ2: What instructional innovations do MOOC instructors perceive? - Cutting videos into small chunks. - Integrating interactive media. - Peer review. - Problem-based learning. - Service learning.





3. MOOC Strengths Findings

RQ3: What do instructors perceive as the strengths of their MOOCs?

- The topic of the MOOC itself.
- The pedagogical methods employed.
- The impact on participants.

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Findings MOOC Design Considerations (out of 139) RQ. What are the design considerations Time for designing this MOOC of instructors when Pedagogical approaches designing MOOCs? Instructors' role Flexibility · Learning objectives Collaborative learning support Assessment Hardware resources (e.g., Cultural sensitivity · Time for designing Software resources (e.g., video. MOOC Tools for communication (e.g., Engaging learners

4. MOOC Design Findings RQ4: How would they redesign the MOOC? Overall, they were satisfied with the current course, especially with the structure. One literacy instructor from the UK emphatically stated: "Actually no. I'm quite happy with it and we've had good feedback from

4. MOOC Design Findings

RQ4: How would they redesign the MOOC?

- Adjusting the difficulty of quizzes.
- Adding lab experiences.
- Adding international perspectives.
- Cancelling peer-grading.
- Increasing instructor-student and peer-to-peer interaction.
- Inviting guest speakers.
- Making the length of the MOOC shorter.
- Using learning analytics before redesigning MOOC.

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4. MOOC Design Findings

RQ4: How would they redesign the MOOC?

Data from the platform

He further added:

learners."

"I probably am a much better teacher than I was before...To think about that [i.e., less interaction with students when using prerecorded video] made me a different teacher. I'm sure I'm a different teacher after that. If you want to become a better teacher, you develop a MOOC."



Study #4: Findings Recap

 Growth and relatedness needs were the primary instructor motivations for offering MOOCs.

Growth needs included curiosity about MOOCs and the exploration of new ways of teaching; such findings align well with the research from Hew and Cheung (2014).

- Various pedagogical innovations were mentioned by the interviewees (e.g., guests, PBL, service learning, peer review, interactive media, etc.).
- MOOC instructors interviewed were satisfied with the designs of their MOOCs, but did want to make major changes to their course. (Lacking time? And overly rely on positive student feedback.)



Significance & Conclusion



- This study provides a window into the decision making of more than 100 MOOC instructors. Few studies have tapped into such a database.
- This study provides key insights into instructors' motivations for offering MOOCs as well as instructional innovations in MOOC design.
- The results may inform MOOC stakeholders (i.e., institutions) of how to foster instructor motivation and instructional innovation in MOOCs.
- This study can be used to train instructional designers on the design of MOOCs as well as the expectations of MOOC instructors that they may be working with.



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.
- 3. MOOC instructor motivation by discipline, country, or region of the world.
- MOOC instructional professional development and instructor teaching skill changes from designing MOOCs.

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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)

MOOC Study #5: Malaysian and Indonesian MOOC Instructors

Sari, A., Bonk, C., J., & Zhu, M. (2018). MOOCs Design and Challenges: What can be Learned from Existing MOOCs in Indonesia and Malaysia?



Research Questions

- 1. What are the instructors' reasons to offer MOOCs?
- 2. How do instructors design their MOOCs?
- 3. What challenges do instructors experience in designing their MOOC?

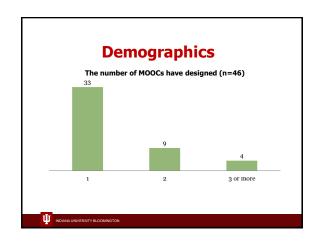


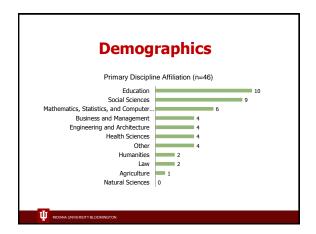
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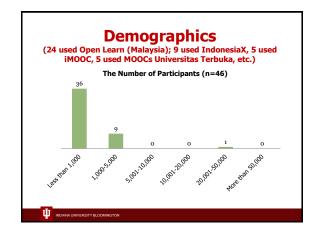
Research Methods-Data collection

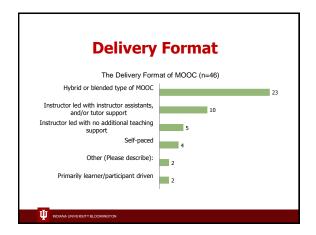
- Research Design: mixed method design (Creswell, 1999)
- Data Collection: Survey, interview, course review Webbased survey: 20 closed-ended questions + 2 open ended questions; 9 interview questions.
- Participants: 46 survey participants (15.6%) and 9 interviewees (3 Malaysian + 6 Indonesian)

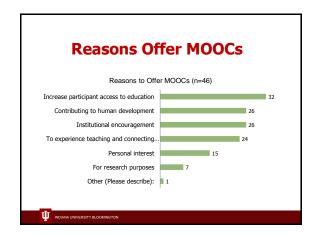
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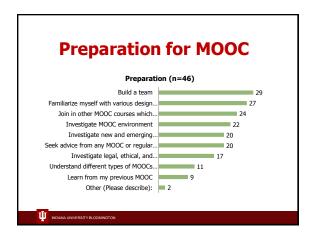


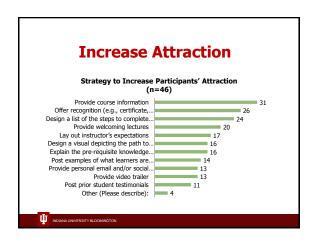




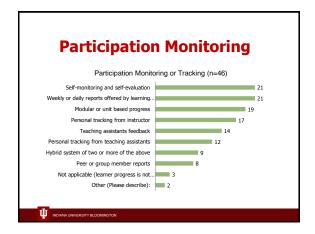


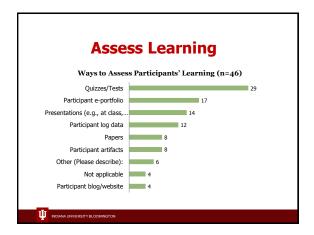


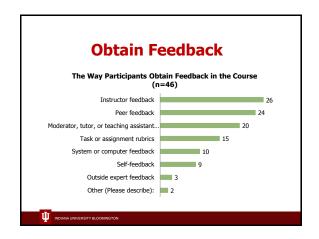


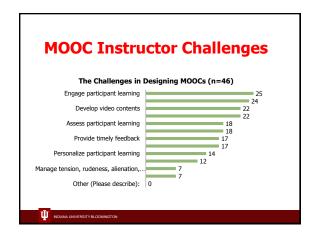


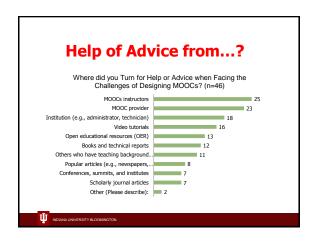












Study #5: Findings Recap and Future Directions

- 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.
- Top challenges include encouraging collaboration, fostering engagement, video development, and time.
- Future research might add perspectives from students, affiliated institutions, and MOOC providers



Khe Foon (Timothy) Hew (2018) Hew, K. F. (2018). Unpacking the Strategies of Ten Highly Rated MOOS: Implications for Engaging Students in Large Online Courses. Teachers College Record, 120(1). https://www.coursetalk.com/. Hew's (2018, p. 1) analyzed 4,565 coursetalk review comments of 10 highly rated MOOCs. He found "six key factors that can engage online [MOOC] participants and nine reasons for participant disaffection." 1. Problem-centric learning supported by clear explanations. 2. Active learning supported by timely feedback (e.g., assignments, projects, discussion). 3. Course resources that cater to participants' learning needs or preferences. 4. Instructor attributes (e.g., passion, enthusiasm, humor, variety of examples). 5. Peer interaction. 6. Instructor availability.

