Very Personal Experiences in the Development of Disciplines

The Learning Sciences, Quantitative Ethnography









I am so excited by

- the emergence of QE as a new discipline because...
 - •I had areat experiences in the last thirty years through the development of the Learning Sciences
 - •international graduate student
 - postdoc, associate
 - professor
 - Now I have again the chance to experience the emergence of a new field, quantitative ethnoaraphy as a senior scholar
 - OI love to see how young generation develops the field by facing their challenges

Reference

Pea, R., & Linn, M. C. (2020). Personal perspectives on the emergence of the learning sciences: 1970's-2005. In Frontiers in Education (Vol. 5, p. 130). Frontiers.



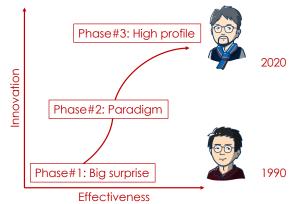




Personal Perspectives on the **Emergence of the Learning** Sciences: 1970s-2005

Roy Pea1* and Marcia C. Linn2

Thirty years of the learning sciences from my perspective





Phase#1: Big Surprise (fear?)

- "We deal with learning in the natural context"
 - Much more complicated phenomena
 - Collective rather than individual
 - Supported by technologies



- O"I did not come here for the research like that"
 - Ol did not know anything about computers in ed.
 - Ol had never touched Mac and Unix system
 - I had no idea about how to use LAN-based learning environment, CSILE



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Phase#2: Paradigm (2010s)

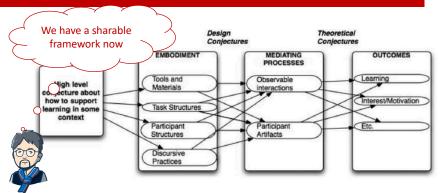


FIGURE 1 Generalized conjecture map for educational design research.



Sandoval, W. (2014). Conjecture mapping: An approach to systematic educational design research. *Journal of the learning sciences*, 23(1), 18-36.

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Phase#2: Paradigm (early 90s)

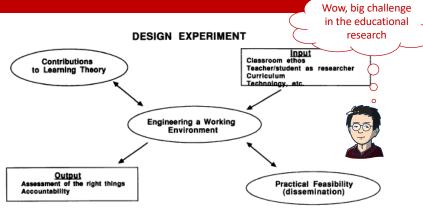


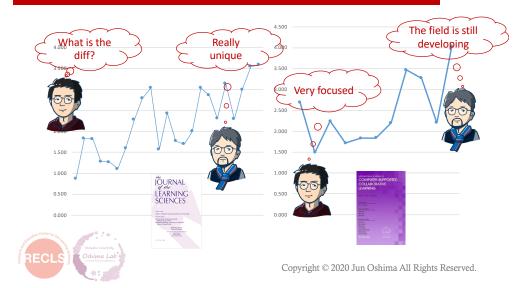
FIGURE 1 The complex features of design experiments



Brown, A. L. (1992). Design experiments: Theoretical and methodological challenges in creating complex interventions in classroom settings. *The journal of the learning sciences*, 2(2), 141-178.

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Phase#3: High Profile



What I See in QE



- So excited to see the emergence of another new discipline
 - •I am approaching it as a senior researcher
 - I truly love to see how young people enjoy the challenges related to the phases I had experienced in the LS
- Also see differences between the emergence of the two disciplines
 - •We are now in the totally digital age: the world is so flat
 - •The QE community started as international
 - The paradigm is already there: David's book

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QE as a Discipline for Me

