

- Ane von der Fehr, Sølberg, and Jesper Bruun, “Validation of networks derived from snowball sampling of municipal science education actors,” *International Journal of Research & Method in Education*, 1–15 (2016).
- Jonas Forsman, Rachel Moll, and Cedric Linder, “Extending the theoretical framing for physics education research: An illustrative application of complexity science,” *Physical Review Special Topics–Physics Education Research* **10**, 020122 (2014).
- Renee Michelle Goertzen, Eric Brewé, and Laird Kramer, “Expanded markers of success in introductory university physics,” *International Journal of Science Education* **35**, 262–288 (2013).
- Jesper Juul Jensen, *Formativ evaluering i Almen Studieforberejdelse*, Master’s thesis, Department of Sci-

ence Education, University of Copenhagen (2015).

- Ismo T. Koponen and Tommi Kokkonen, “A systemic view of the learning and differentiation of scientific concepts: The case of electric current and voltage revisited,” *Frontline Learning Research* **2**, 140–166 (2014).
- Ismo T. Koponen, Tommi Kokkonen, and Maija Nousiainen, “Dynamic systems view of learning a three-tiered theory in physics: Robust learning outcomes as attractors,” *Complexity* (2016).
- Maija Nousiainen and Ismo T. Koponen, “Concept maps representing knowledge of physics: Connecting structure and content in the context of electricity and magnetism,” *Nordic Studies in Science Education* **6**, 155–172 (2010).

-
- [1] Jesper Bruun, “[Network analysis as a research methodology in PER](#),” (2016), invited talk at 2016 Physics Education Research Conference.
- [2] Mark Newman, *Networks: An Introduction* (Oxford University Press, Oxford; New York, 2010).
- [3] Jesper Bruun, *Networks in physics education research: A theoretical, methodological and didactical explorative study*, Ph.D. thesis, University of Copenhagen (2012).
- [4] Etienne Wenger, *Communities of Practice: Learning, Meaning, and Identity* (Cambridge University Press, 1998).
- [5] Jesper Bruun and Eric Brewé, “Talking and learning physics: Predicting future grades from network measures and Force Concept Inventory pretest scores,” *Physical Review Special Topics–Physics Education Research* **9**, 020109 (2013).
- [6] Jonas Forsman, Cedric Linder, Rachel Moll, Duncan Fraser, and Staffan Andersson, “A new approach to modelling student retention through an application of complexity thinking,” *Studies in Higher Education* **39**, 68–86 (2014).
- [7] Eric Brewé, Jesper Bruun, and Ian G. Bearden, “Using module analysis for multiple choice responses: A new method applied to Force Concept Inventory data,” *Physical Review Physics Education Research* **12**, 020131 (2016).
- [8] David Hestenes, Malcolm Wells, and Gregg Swackhamer, “Force Concept Inventory,” *The Physics Teacher* **30**, 141–158 (1992).
- [9] Martin Rosvall and Carl T. Bergstrom, “Maps of random walks on complex networks reveal community structure,” *Proceedings of the National Academy of Sciences* **105**, 1118–1123 (2008).
- [10] Gökhan Özdemir and Douglas B. Clark, “An overview of conceptual change theories,” *Eurasia Journal of Mathematics, Science & Technology Education* **3**, 351–361 (2007).
- [11] Jesper Bruun, P. Jensen, and Linda Udby, “[Mapping student online actions](#),” (2015), poster presented at CompleNet 2015, New York, United States.
- [12] Julie Hougard, *Using virtual experiments as a preparation for large scale facility experiments.*, Master’s thesis, Department of Science Education, University of Copenhagen (2015).
- [13] Madelen Bodin, “Mapping university students’ epistemic framing of computational physics using network analysis,” *Physical Review Special Topics–Physics Education Research* **8**, 010115 (2012).
- [14] Lev S. Vygotsky, *Mind in Society: The Development of Higher Mental Process* (Harvard University Press, Cambridge, MA, 1978).
- [15] David Williamson Shaffer, David Hatfield, Gina Navoa Svarovsky, Padraig Nash, Aran Nulty, Elizabeth Bagley, Ken Frank, André A Rupp, and Robert Mislevy, “Epistemic network analysis: A prototype for 21st-century assessment of learning,” *International Journal of Learning and Media* **1**, 33–53 (2009).
- [16] Mats Lindahl, Jesper Bruun, and Cedric Linder, “[Maps of student discussions about sustainability](#),” (2016), invited poster presentation at 2016 Physics Education Research Conference.
- [17] A. P. Masucci and G. J. Rodgers, “Network properties of written human language,” *Physical Review E* **74**, 026102 (2006).
- [18] Mats Lindahl, Jesper Bruun, and Cedric Linder, “Forthcoming,” (2016).
- [19] Gilles Fauconnier and Mark Turner, “Conceptual blending, form and meaning,” *Recherches en Communication* **19**, 57–86 (2003).
- [20] Noah S. Podolefsky and Noah D. Finkelstein, “Analogical scaffolding and the learning of abstract ideas in physics: An example from electromagnetic waves,” *Physical Review Special Topics–Physics Education Research* **3**, 010109 (2007).