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As researcher in ergonomics, I conduct multidisciplinary research into digital uses in formal and informal education. I have developed cross-disciplinary projects in the fields of ergonomics, education, design and art for a number of years.

I used to mobilize and to teach the conceptual approach developed by Pierre Rabardel, called “the instrumental approach” (Rabardel, 1995). The instrumental approach is an important framework in France in the ergonomics field. This approach is explicitly connected to the Vygotskian tradition, in particular around the notion of mediation developed by Vygotsky. This approach is compatible with CHAT particularly with the transformative agency by double stimulation model developed by Annalisa Sannino.

In november 2021, for the colloquium “Approche instrumentale: expansion et devenir”, we initiated a scientific dialogue with Annalisa Sannino and Yrjö Engeström about the ways of articulating these two frameworks. This dialogue will be publish in French in the book: “Approche instrumentale: Expansion et devenir.”

Progressively, thanks to the exchange with Yannick Lémonie and Vincent Grosstephan, I

had the opportunity to participate in a formative intervention. We lead a change lab in the field of education. Following this first experience, we experiment now a collaboration with a cineaste as a way to introduce art practices as trigger of transformative agency in change laboratory.

In my teaching, using these two frameworks (instrumental approach and CHAT) helps me to support students in analyzing their practices by varying the focus from the teacher's instrumented activity in the classroom to the wider activity system in which the teacher works.

My actual research concerns the following subject: How to co-design instrumentality in intervention to enable research creation to provoke expansive learning?

I supervised a phd about this topic:

Julie Blanc -juin 2023- Composer avec les technologies du web : Genèses instrumentales collectives pour le développement pour le développement d'une communauté de pratique de designers graphiques

<https://phd.julie-blanc.fr/>

References:

Bationo Tillon, A., Rabardel, P. (2015). L'approche instrumentale: conceptualiser et concevoir pour le développement. ergonomie orientée enfant.

Bationo-Tillon, A., Cozzolino, F., Krier, S. et Nova, N. (à paraître). En quête d'image. Écritures sensibles en recherche-création. Presses du réel.

Bationo-Tillon, A., Decortis, F., Folcher, V.. et Bourmaud G (à paraître). Approche instrumentale : Expansion et devenirs. Octarès..

Blanc, J., et Bationo-Tillon, A. (2023). Composer avec les technologies du web. *TransFormations-Recherches en Education et Formation des Adultes*, 25, 11-35. <file:///Users/p54065/Downloads/498-Texte%20de%20l'article-2164-1-10-20230523-3.pdf>

Grosstephan, V. ; Lémonie, Y. & Bationo-Tillon, A. (2023). Professional identity development in a change laboratory intervention. Communication orale au symposium Cultural Historical Perspectives on Identity: A Tool for Dismantling Inequality and Promoting Just Educational Possibilities (coord. Martinez-Alvarez, P. & Kajamaa, A). Congrès AERA, Chicago, 12-16 avril.

Lémonie, Y., Bationo-Tillon, A., & Grosstephan, V. (2022, August). *Uma intervenção formativa em um instituto de formação de professoras. Atividade transformadora e subjetividade*. Paper presented at the EITA congresso, Pessoa, Brésil.