

Jo Tondeur  
Additional Position (Rector, Vice Rector, Dean, Department Chair, Head of  
Research Group)

R&D centraal

Brussels Institute for Teacher Education

Multidisciplinair Inst. Lerarenopleiding

Brussels Institute for Teacher Education

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Teacher Education

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## Expertise

I am currently working as an Assistant Professor at the Vrije Universiteit Brussel (MILO). My research interests are in the field of instructional design and educational innovation. Most of my work focuses on ICT integration in teaching and learning processes.

In more recent work, I am especially interested in exploring the interplay between (ICT) innovations and professional development, with a specific focus on behavioral science. Also in this area I investigate themes at the individual level, e.g. educational beliefs, and at school level, e.g. leadership. To present how these themes relate, the SQR-model was developed, focusing on strategies to prepare teachers for ICT integration.

Moreover, much of my work is related to the social implications of educational innovations. To illustrate, in collaboration with development agencies, I have carried out studies on the potential of ICT in Africa and digital exclusion in Flanders. I was involved in research projects across different countries including China, Australia, Indonesia and Kenya. As a Visiting Scholar I worked at the Edith Cowan University (Australia), Twente University (the Netherlands), Oslo University (Norway) and the University of British Columbia (Canada).

## Employment

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Vrije Universiteit Brussel

Brussels, Belgium

17 Mar 2025 → 31 Dec 2025

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17 Mar 2025 → 31 Dec 2025

**Multidisciplinair Inst. Lerarenopleiding**

Vrije Universiteit Brussel

Brussels, Belgium

1 Jan 2024 → 30 Sep 2041

**Brussels Institute for Teacher Education**

Vrije Universiteit Brussel

Brussels, Belgium

1 Jan 2024 → 30 Sep 2041

**Multidisciplinair Inst. Lerarenopleiding**

Vrije Universiteit Brussel

Brussels, Belgium

1 Jan 2023 → 30 Sep 2041

### **Multidisciplinair Inst. Lerarenopleiding**

Vrije Universiteit Brussel

Brussels, Belgium

1 Oct 2019 → 30 Sep 2039

### **Teacher Education**

Vrije Universiteit Brussel

Brussels, Belgium

1 Oct 2016 → 30 Sep 2039

## **Research outputs**

### **Preparing preservice teachers to teach with digital technologies: An update of effective SQD-strategies**

Tondeur, J., Trevisan, O., Howard, S. K. & Braak, J. V., Jul 2025, In: Computers & Education. 232, 47 p., 105262.

### **Is contextual knowledge a key component of expertise for teaching with technology? A systematic literature review**

Brianza, E., Schmid, M., Tondeur, J. & Petko, D., Dec 2024, In: Computers and Education Open. 7, 8 p., 100201.

### **The DTALE Model: Designing Digital and Physical Spaces for Integrated Learning Environments**

Tondeur, J., Howard, S., Carvalho, A. A., Kral, M., Petko, D., Ganesh, L. T., Røkenes, F. M., Starkey, L., Bower, M., Redmond, P. & Andresen, B. B., Dec 2024, In: Technology, Knowledge and Learning. 29, 4, p. 1767-1789 23 p.

### **Digital storytelling in teacher education: Developing pre-service teachers' critical thinking**

Isaacs, M-A., Tondeur, J. & Vaesen, J., 17 Jul 2024, In: Australasian Journal of Educational Technology. 40, 3, 18 p.

### **Het LOB-STEM-model voor een blended STEM-didactiek in de lerarenopleiding**

Vyvey, K., Frans, R., Ooghe, I., Noppen, L., Tondeur, J. & Stiers, I., Jun 2024, In: Tijdschrift voor Lerarenopleiders. 20 p.

### **Digital storytelling as a strategy for developing 21st-century skills: a systematic review of qualitative evidence**

Isaacs, M-A., Tondeur, J., Howard, S., Claro, M. & Braak, J. V., 5 May 2024, In: Technology, Pedagogy and Education. 33, 5, p. 573-593 21 p.

### **Profiling teacher educators: ready to prepare the next generation for educational technology use?**

Adnan, M., Tondeur, J., Scherer, R. & Siddiq, F., 11 Mar 2024, In: Technology, Pedagogy and Education. 33, 4, p. 527-544 18 p.

### **The digital silver lining of the pandemic: The impact on preservice teachers' technological knowledge and beliefs**

Brianza, E., Schmid, M., Tondeur, J. & Petko, D., Feb 2024, In: Education and Information Technologies. 29, 2, p. 1591-1616 26 p.

### **Preface: New digital practices in education: Talking about the (r)evolution**

Tondeur, J. & Howard, S., 31 Oct 2023, *Digitalization and Digital Competence in Educational Contexts: A Nordic Perspective from Policy to Practice*. Taylor and Francis, p. xiii-xvi 4 p.

### **Teacher Professional Development for Online Teaching: An Update of Insights Stemming from Contemporary Research**

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**Untangling the Great Online Transition: A network model of teachers' experiences with online practices**

Tondeur, J., Howard, S. K., Scherer, R. & Siddiq, F., Oct 2023, In: Computers and Education. 203, 11 p., 104866.

**Gender divides in teachers' readiness for online teaching and learning in higher education: Do women and men consider themselves equally prepared?**

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**Transforming Initial Teacher Education Program with Mobile Technologies. A synthesis of qualitative evidences**

Ngao, A., Sang, G., Tondeur, J., Kihwele, J. E. & Chunga, J. O., Jun 2023, In: Digital Education Review. 43, 43, p. 18-34 17 p.

**Higher education teachers' digital competencies for a blended future**

Howard, S. K. & Tondeur, J., Feb 2023, In: Educational Technology Research and Development. 71, 1, p. 1-6 6 p.

**Strategies for developing digital competencies in teachers: Towards a multidimensional Synthesis of Qualitative Data (SQD) survey instrument**

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**The more experienced, the better prepared? New evidence on the relation between teachers' experience and their readiness for online teaching and learning**

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**Exploring university teachers' online education during COVID-19: Tensions between enthusiasm and stress**

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**Teacher Perceptions about ICT Integration into Classroom Instruction**

Abel, V. R., Tondeur, J. & Sang, G., Sep 2022, In: Education Sciences. 12, 9, 609.

**The engagement CUBE: a dialogical tool for designing, facilitating and monitoring engaged research and teaching strategies**

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**Negotiating teacher educators' beliefs about blended learning: Using stimulated recall to explore design choices**

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**Van 21st Century Skill tot de fysieke leeromgeving: haal meer uit de ruimte!**

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Tondeur, J., Petko, D., Christensen, R., Drossel, K., Starkey, L., Knezek, G. & Schmidt-Crawford, D. A., 11 Aug 2021, In: Educational Technology Research and Development. 69, 4, p. 2187-2208 22 p.

**Professional Development Preferences for Blended Learning in Higher Education Teaching Staff**

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**Using micro-lectures in small private online courses: what do we learn from students' behavioural intentions?**

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**Samen opleiden en professioneel groeien binnen lerende teams**

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**Fresh perspectives on TPACK: pre-service teachers' own appraisal of their challenging and confident TPACK areas**

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**Digital storytelling as a strategy to prepare students for 21st century learning: A systematic review of qualitative evidence**  
Isaacs Bornand, M-A. E. & Tondeur, J., Mar 2020.

**All the same or different? Revisiting measures of teachers' technology acceptance**

Scherer, R., Siddiq, F. & Tondeur, J., 1 Jan 2020, In: Computers and Education. 143, 103656.

**Digital storytelling as a strategy to prepare students for 21st century learning: A systematic review of qualitative evidence**

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Surmont, J., Vaesen, J., Plackle, I. & Tondeur, J., 2020, *Post Viraal naar een nieuw Normaal*. Brengman, M. (ed.). VUB Press, p. 165-176

**A teacher professional development process model for online and blended learning: Introducing digital capital.**

Philipsen, B., Tondeur, J., Pynoo, B., Cocquyt, C. & Zhu, C., Dec 2019, In: CITE Journal: Contemporary Issues in Technology and Teacher Education. 19, 4, p. 850-867 18 p.

**Experts' Insights About Blended Learning Implementation: What Teacher Attributes are Relevant?**

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**Examining pre-service teachers' Technological Pedagogical Content Knowledge as evolving knowledge domains: A longitudinal approach**

Valtonen, T., Sointu, E., Kukkonen, J., Makitalo, K., Hoang, N., Hakkinen, P., Jarvela, S., Naykki, P., Virtanen, A., Pontinen, S., Kostiaainen, E. & Tondeur, J., Aug 2019, In: Journal of Computer Assisted Learning. 35, 4, p. 491-502 12 p.

**Enhancing pre-service teachers' technological pedagogical content knowledge (TPACK): a mixed-method study**

Tondeur, J., Scherer, R., Siddiq, F. & Baran, E., 10 Jul 2019, In: Educational Technology Research and Development. 68, 1, p. 319-343 25 p.

**Teacher educators as gatekeepers: Preparing the next generation of teachers for technology integration in education**

Tondeur, J., Scherer, R., Baran, E., Siddiq, F., Valtonen, T. & Sointu, E., May 2019, In: British Journal of Educational Technology (ISI/SSCI). 50, 3, p. 1189-1209 21 p.

**Insights from ICT-expert teachers about the design of educational practice: the learning opportunities of social media**

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**Supporting teacher reflection during online professional development: A logic modelling approach**

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**Seeing the wood for the trees: Insights into the complexity of developing pre-service teachers' digital competencies for future teaching**

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**Investigating the impact of teacher education strategies on preservice teachers' TPACK**

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**The technology acceptance model (TAM): A meta-analytic structural equation modeling approach to explaining teachers' adoption of digital technology in education**

Scherer, R., Siddiq, F. & Tondeur, J., Jan 2019, In: Computers & Education. 128, p. 13-35 23 p.

**Examining lived experiences in a professional development program for online teaching: A hermeneutic phenomenological approach**

Philipsen, B., Tondeur, J., Pynoo, B., Vanslambrouck, S. & Zhu, C., 2019, In: Australasian Journal of Educational Technology. 35, 5, p. 46-59

**Exploring the potential of an e-portfolio for Blended Service-Learning**

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**Improving teacher professional development for online and blended Learning: A Systematic Meta-Aggregative Review**

Philipsen, B., Tondeur, J., Roblin, N. P., Vanslambrouck, S. & Zhu, C., 2019, In: Educational Technology Research & Development. 67, 5, p. 1145-1174 30 p.

**Mapping support strategies for pre- service teachers' ICT integration: SQD in Finland**

Valtonen, T., Hoang, N., Kankaanpää, J., Sointu, E., Kukkonen, J., Smits, A., Tondeur, J. & Laru, J., 2019, *EdMedia. LearnTechLib*, p. 658-665

**More than a brick in the wall: Creating Europe's innovative learning environments - connecting policy, pedagogy and investment**

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**Profiling Teacher Educators' Readiness towards Blended Learning**

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**Sustainability and Scalability in Educational Technology Initiatives: Research-Informed Practice**

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**A multilevel analysis of what matters in the training of pre-service teacher's ICT competencies**

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**Pre-service teachers' technology competences: do teacher training strategies matter?**

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**The importance of attitudes toward technology for pre-service teachers' technological, pedagogical, and content knowledge: Comparing structural equation modeling approaches**

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**Practical considerations informing teachers' technology integration decisions: the case of tablet PCs**

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**Students' motivation and subjective task value of participating in online and blended learning environments**

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**Blended Learning and Teacher education: From instrument to governance**

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**Ondersteunen van motivatie en zelfregulering van de cursist**

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**Teachers' readiness for teaching in 1:1 laptop classrooms**

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**Classroom biographies: Teaching and learning in evolving material landscapes (c. 1960-2015)**

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**On the quest for validity: Testing the factor structure and measurement invariance of the technology-dimensions in the Technological, Pedagogical, and Content Knowledge (TPACK) model**

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**Academic domains as political battlegrounds: A global enquiry by 99 academics in the fields of education and technology**

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**Understanding the relationship between teachers' pedagogical beliefs and technology use in education: a systematic review of qualitative evidence**

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## **Prizes**

**Best conference paper**

Tondeur, Jo (Recipient), 2019

**Best paper award of 2016**

Tondeur, Jo (Recipient), 2016

**Best poster award**

Vanslambrouck, Silke (Recipient), Zhu, Chang (Recipient), Pynoo, B. (Recipient), Lombaerts, Koen (Recipient) & Tondeur, Jo (Recipient), 2017

**Outstanding Paper Award**  
Tondeur, Jo (Recipient), 3 Aug 2016

## **Awards**