

## Publications

**Engineering educators' readiness for change in adopting PBL through participating in an international faculty professional development programme: experiences from India**

Chen, J., Pereira de Carvalho Guerra, A. O., Baligar, P., Lyngdorf, N. E. R., Kandakatla, R., Johnson, B., Ulseth, R., Joshi, G. & Du, X., 28 May 2026, In: *European Journal of Engineering Education*.

**'I am because we are': unfolding role identity and tensions of South African middle leaders in engineering as change agents**

Jiang, D., Smith, L., Hattingh, T., Guerra, A. & Du, X., 16 Apr 2026, (E-pub ahead of print) In: *Studies in Higher Education*.

**Leadership Readiness as Multidimensional Concept: Exploring Distinct Logics of System-Level Change Toward PBL Through Q Methodology**

Du, X., Nian, Z., Chen, J. & Guerra, A., Apr 2026, In: *Systems*. 14, 4, 448.

**Sustainability competence(s) in focus: analysis of engineering students' perspectives in a project-based learning (PBL) context**

d'Escoffier, L. N., Longen Zindel, M. T., Jiang, D. & Pereira de Carvalho Guerra, A. O., 2026, (Accepted/In press) In: *International Journal of Sustainability in Higher Education (Print Edition)*.

**Proceedings from the 10th International Research Symposium on Problem-Based Learning: Anchoring Conversations (IRSPBL 2025)**

Chen, J. (Editor), Smith, L. (Editor), Abouarabi, Y. B. (Editor), Wolff, K. (Editor), Simpson, Z. (Editor) & Pereira de Carvalho Guerra, A. O. (Editor), 14 Nov 2025, Aalborg University: Aalborg University Open Publishing. 689 p. (International Research Symposium on PBL, Vol. 10).

**AAU Professional skills Lab (ProLab): Promoting Transversal Skill Development in STEM through Student Self-Selected Interdisciplinary Workshops**

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**Exploring university educators' readiness for changing to PBL: a case from India**

Chen, J., Du, X., Bandi, S., de Carvalho Guerra, A. O. P., Hansen, S. & Joshi, G., 4 Nov 2025, (E-pub ahead of print) In: *International Journal for Academic Development*.

**Grand Challenges and A (Brief) Why, What and How to 'Embrace' Emotions in Engineering Education**

Pereira de Carvalho Guerra, A. O., Direito, I., Gabriel, B. & Valente, R., 20 Aug 2025, *2025 6th International Conference of the Portuguese Society for Engineering Education, CISPEE 2025*. IEEE (Institute of Electrical and Electronics Engineers), p. 1-7

**Supporting change in Polish higher education: Academic middle leaders' perspectives**

Du, X., Guerra, A. O. P. D. C., Chen, J., Lindsay, E. & Nørgaard, B., Jul 2025, In: *Educational Management, Administration & Leadership*. 53, 4, p. 929-954 26 p.

**Mentorship for early career academics in a long-term problem- and project-based university academic development program in Denmark: views of subject and pedagogy mentors**

Du, X., Chen, J., Stegeager, N., Thomsen, T. L., Guerra, A., Tellús, P. K. & Juhl, L. B., 3 Apr 2025, In: *International Journal for Academic Development*. 30, 2, p. 143-158 16 p.

**Examining Engineering Design Students' Perceptions of Agency for Sustainability in a Problem- and Project-based Learning (PBL) Context - A Q Methodology Study**

Guerra, A. O. P. D. C., Jiang, D., Du, X., Abou-Hayt, I. & Pineda, A., Apr 2025, In: *International Journal of Technology and Design Education*. 35, 2, p. 723-746 24 p., 127145.

### **First-Year University Students' Perspectives on Their Psychological Safety in PBL Teams**

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### **Academic Leadership for All: A Systems Thinking Approach to Pedagogical Development and Professional Learning for Engineering Educators**

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### **Empathy and Education for Sustainable Development**

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### **Fostering Sustainable Mindsets through Challenge-Based Learning and Industry Collaboration: Attributes for Innovative Sustainability Education**

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### **Engineer students' views on competencies for sustainable development: a case from a systemic PBL environment using Q methodology**

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### **Educational Strategies for Sustainable Futures: Revealing the Priorities and Perspectives of Engineering Students**

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### **What does it mean to be engaged? The engagement of student engineers with sustainability: A literature review**

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**Mentor Perceptions on Role and Practice in a Professional Development Program**

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**An Exploration of Sources Fostering First-year Engineering Students' Academic Well-Being in a PBL Environment**

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### **Students' Perspectives on Sustainability**

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**Advanced PBL Training in Problem Design and Facilitation Skills: Lodz University of Technology**

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**Analysis of sustainability competences developed by engineering students in a Project-based Learning environment.**  
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**Building Emotional Intelligence in an PBL environment through Empathy and Teamwork.**  
Pereira de Carvalho Guerra, A. O. (PI), Ejsing-Duun, S. (PI) & Tellés, P. K. K. (PI)  
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**Collaboration, leadership, and sustainability in higher education: How universities operate and align sustainability in education**  
Christiansen, S. H. (PI), Du, X. (Supervisor) & Pereira de Carvalho Guerra, A. O. (Supervisor)  
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**Early career engineers' preparedness for transition to work**  
Markman, A. O. (PI), Du, X. (PI), Nørgaard, B. (PI), Pereira de Carvalho Guerra, A. O. (PI) & Agerkvist, I. E. (PI)  
01/01/2025 → ...

**SMART-ER: ECIU University Research Institute for Smart European Regions**  
Pereira de Carvalho Guerra, A. O. (Project Participant)  
01/02/2021 → 31/01/2024

**eee4SD: Empathic engineering education for sustainable development**  
Direito, I. (PI), Pereira de Carvalho Guerra, A. O. (Col), Gabriel, B. (Col), Valente, R. (Col) & Bairaktarova, D. (Col)  
01/01/2025 → 30/06/2026

**Enhancing Institutionalized Transformation through Design, Implement and Evaluate a PBL Pedagogical Development Certificate Program for HITAM, India**  
Du, X. (PI), Chen, J. (CoPI), Pereira de Carvalho Guerra, A. O. (CoPI) & Hansen, S. (CoPI)  
15/03/2024 → 31/12/2027

**Integration of Sustainable Development in Engineering Education**  
Pereira de Carvalho Guerra, A. O. (Project Participant) & Holgaard, J. E. (Project Participant)  
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**Involving and engaging students to become agentic co-creators in mission-driven innovation processes at AAU**  
Christiansen, S. H. (PI), Pereira de Carvalho Guerra, A. O. (CoPI), Vestergaard, J. (Col), Lukassen, N. B. (Col) & Stegeager, N. (Col)  
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22/08/2022 → 31/07/2025

**Pedagogical development and Learning: A training program for University of Foggia**  
Pereira de Carvalho Guerra, A. O. (PI)  
01/06/2022 → 31/03/2023

**Professional Learning and Development for PBL and Course Design: Universidad del País Vasco UPV/EHU**  
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**The ECIU University**

Pereira de Carvalho Guerra, A. O. (Contact)  
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**Aalborg Certificate on Basics of PBL and Curriculum Change: Colombia 2018**

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