

## Publikationer

### 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, I: International Journal of Technology and Design Education. 35, s. 723–746 24 s.

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

Clausen, N. R., Abouarabi, Y. B., Chen, J., Hansen, S., Velmurugan, G., Fink, T., Lyngdorf, N. E., Guerra, A. & Du, X., feb. 2025, I: Education Sciences. 15, 2, 236.

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

Du, X., Smith, L., Naji, K. K., Sohoni, S. & Guerra, A., 2025, *Academic Leadership in Engineering Education*. Kandakatla, R., Kulkarni, S. & Auer, M. E. (red.). Springer Nature Switzerland AG, Bind 1097. s. 299-316 18 s. (Lecture Notes in Networks and Systems, Bind 1097).

### Creating Student-Centric Learning Environments Through Evidence-Based Pedagogies and Assessments

Ortega-Alvarez, J. D., Mohd-Addi, M., Guerra, A., Krishnan, S. & Mohd-Yusof, K., 2025, *Academic Leadership in Engineering Education*. Kandakatla, R., Kulkarni, S. & Auer, M. E. (red.). Switzerland: Springer Nature Switzerland AG, Bind 1097. s. 123-142 20 s. (Lecture Notes in Networks and Systems, Bind 1097).

### Innovative Learning for Sustainability: Sustainable Mindset Attributes through Challenge-Based Learning and Industry Collaboration

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

Ney d'Escoffier, L., Jiang, D., Guerra, A., Pineda, A. & Abou-Hayt, I., 2 sep. 2024, I: European Journal of Engineering Education. 49, 5, s. 928-944 17 s.

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d'Escoffier, L. N., Guerra, A. & Longen Zindel, M. T., 26 jul. 2024, *International Symposium on Project Approaches in Engineering Education*. Rodriguez Mesa, F. J., Roma, M., Lopez, X., Sousa, R. M., Alves, A. & Lima, R. M. (red.). Department of Production and Systems – PAEE association & School of Engineering of University of Minho, Bind 14. s. 79-84 6 s. (International Symposium on Project Approaches in Engineering Education (PAEE)).

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

Guerra, A., Jiang, D. & Du, X., 9 jul. 2024, I: International Journal of Sustainability in Higher Education. 25, 9, s. 213-233 21 s.

### Sources Contributing to Engineering Students' Academic Well-Being: An exploration using the Q methodology

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### Middle Management Leadership Experiences of a Mission-Driven Innovation University Strategy

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**Advanced PBL Training in Problem Design and Facilitation Skills: Lodz University of Technology**  
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01/01/2020 → 30/06/2020

**Analysis of sustainability competences developed by engineering students in a Project-based Learning environment.**  
d'Escoffier, L. N. (PI (principal investigator)), Matos Lopes , R. (Supervisor) & Pereira de Carvalho Guerra, A. O. (Supervisor)  
01/11/2022 → 31/08/2025

**Building Emotional Intelligence in an PBL environment through Empathy and Teamwork.**  
Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Ejsing-Duun, S. (PI (principal investigator)) & Telléus, P. K. K. (PI (principal investigator))  
01/01/2025 → 31/12/2025

**Collaboration, leadership, sand sustianability in higher education: How universities operate and align sustianability in education**  
Christiansen, S. H. (PI (principal investigator)), Du, X. (Supervisor) & Pereira de Carvalho Guerra, A. O. (Supervisor)  
01/03/2022 → 01/03/2025

**Early career engineers' preparedness for transition to work**  
Markman, A. O. (PI (principal investigator)), Du, X. (PI (principal investigator)), Nørgaard, B. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (PI (principal investigator)) & Agerkvist, I. E. (PI (principal investigator))  
01/01/2025 → ...

**eee4SD: Empathic engineering education for sustainable development**  
Direito, I. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (Col (co-investigator)), Gabriel, B. (Col (co-investigator)), Valente, R. (Col (co-investigator)) & Bairaktarova, D. (Col (co-investigator))  
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 (principal investigator)), 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. (Projektdeltager) & Holgaard, J. E. (Projektdeltager)  
31/03/2015 → 31/03/2018

**Involving and engaging students to become agentic co-creators in mission-driven innovation processes at AAU**  
Christiansen, S. H. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (CoPI), Vestergaard, J. (Col (co-investigator)), Lukassen, N. B. (Col (co-investigator)) & Stegeager, N. (Col (co-investigator))  
01/01/2025 → 31/12/2027

**PBL Pedagogical Program for Institutional Transformation (India)**  
Du, X. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Lyngdorf, N. E. R. (Col (co-investigator)), Chen, J. (Col (co-investigator)), Ulseth, R. (Col (co-investigator)) & Jonhson, B. (Col (co-investigator))  
22/08/2022 → 31/07/2025

**Pedagogical development and Learning: A training program for University of Foggia**

Pereira de Carvalho Guerra, A. O. (PI (principal investigator))

01/06/2022 → 31/03/2023

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

Pereira de Carvalho Guerra, A. O. (PI (principal investigator))

01/10/2018 → 30/09/2019

**Professional Learning and Development on PBL and Higher Education: CATZ Poland 2023**

Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Du, X. (CoPI) & Lindsay, E. (CoPI)

01/04/2023 → 30/04/2024

**Retention and Drop out amongst 1 year bachelor students at the Faculty for Engineering and Science**

Bøgelund, P. (PI (principal investigator)), Kolmos, A. (PI (principal investigator)), Bylov, S. M. (Col (co-investigator)) &

Pereira de Carvalho Guerra, A. O. (Col (co-investigator))

01/08/2015 → 01/07/2016

**ENVIHEI: Student-centered learning for ENVironmental sustainability at Higher Education Institutions**

Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Jiang, D. (Col (co-investigator)) & Palomares, A. (PI

(principal investigator))

01/12/2024 → 30/11/2026

**Supporting university student proactivity for social and academic well-being: What PBL can do**

Chen, J. (PI (principal investigator)), Hansen, S. (PI (principal investigator)), Velmurugan, G. (PI (principal investigator)),

Fink, T. (PI (principal investigator)), Lyngdorf, N. E. R. (Col (co-investigator)), Søndergaard, B. D. (Col (co-investigator)),

Markman, A. O. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (Col (co-investigator)), Du, X. (Col (co-

investigator)), Stegeager, N. (Col (co-investigator)) & Telléus, P. K. K. (Col (co-investigator))

01/01/2025 → 31/12/2025

**The ECIU University**

Pereira de Carvalho Guerra, A. O. (Kontaktperson)

01/11/2020 → 31/10/2022

**Aalborg Certificate on Basics of PBL and Curriculum Change: Colombia 2018**

Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Spliid, C. M. (CoPI), Ulseth, R. (Andet) & Kolmos, A. (CoPI)

01/03/2018 → 28/02/2019

**Aalborg Certificate on Basics of PBL and Curriculum Change: NEU 2018/ 2019**

Kolmos, A. (PI (principal investigator)), Zhou, C. (PI (principal investigator)), Pereira de Carvalho Guerra, A. O. (CoPI) &

Chen, J. (Col (co-investigator))

01/03/2018 → 31/12/2021

**Aalborg Certificate on the Basics of PBL and Curriculum Change: Colombia 2021**

Pereira de Carvalho Guerra, A. O. (PI (principal investigator)), Du, X. (CoPI), Nørgaard, B. (Col (co-investigator)),

Lyngdorf, N. E. R. (Col (co-investigator)), Ulseth, R. (Col (co-investigator)) & Jonhson, B. (Col (co-investigator))

21/10/2021 → 31/05/2023