

Joanna Mytnik - significant achievements 2020-2025

Bibliometric Indicators

- Number of publications (2023–2025): 6 (including 1 monograph); total: 77
- Citation count (Google Scholar): 405
- h-index (Google Scholar): 11
- i10-index (Google Scholar): 12
- h-index (Scopus): 7
- Citation count (Scopus): 153
- Reach of educational content dissemination: 42 lectures (YouTube), over 53,000 views

Publications 2023–2025

1. Mytnik J. (2025). *Gamification in Education. Building Narrative Motivational Systems*. Foundation “Zmieniam” Publishing House, Szczecin, 328 pages.
2. Mytnik J. (2025). *Education in the Mirror of Generative Artificial Intelligence: Potentially Negative Impacts on the Learning Process*. In: *The New School – Higher Education. Questions, Discoveries, Actions*. Eds. Monika Kościelniak, Marta Grzeško-Nyczka. Jan Amos Komeński Academy of Applied Sciences in Leszno.
3. Mytnik J., Wikieł B., Kaczmarek M. (2024). *A Learning Community Model: the Center for Innovative Education Supporting Academic Teaching at Gdańsk University of Technology, Poland*. *Global Journal of Engineering Education*, 24(2), 101–107.
4. Mytnik J. (2024). *The Center for Innovative Education: Systemic Support for University Teachers – Good Practices from Gdańsk University of Technology*. In: *In Search of Teaching Excellence*, Eds. Sajdak-Burska & Maciejowska. Jagiellonian University Press.
5. Wikieł B., Mytnik J. (2024). *Colossus from Algebron – Gamification as a Tool to Engage Students in Learning Mathematics*. *Scientific Journal of Gdynia Maritime University*, 131, 59–72.
6. Mytnik J. (2023). *The Effectiveness of School Grades from a Scientific Perspective. Implications for Teacher Education*. In: *The New School – Higher Education*. Eds. Monika Kościelniak, Marta Grzeško-Nyczka. Jan Amos Komeński Academy of Applied Sciences in Leszno.

Keynote Lectures at National Conferences (Selected 2023–2025)

- Inaugural lecture at the opening of the 2023/2024 academic year, Wrocław University of Environmental and Life Sciences: “*Artificial Intelligence and the University*”, 1 Oct 2023 (5000+ views)
- TEDx Gdańsk University of Technology “Future”: “*Do Educational Systems Keep Up with the Changing World?*”, 25 Nov 2023 (4400+ views)

- Inaugural lecture for the opening of the Center for Modern Didactics at Poznań University of Technology: *“Generations Z and Alpha: How Education Is Changing”*, 16 Apr 2024
- Opening lecture at the Congress of Mathematics Teachers: *“The AI Math Tutor”*, 23 Nov 2024
- Opening lecture at the 3rd National Conference *“Empathic Education, Empathic Poland”*, Zduńska Wola: *“A Haptic Generation in a 200-Year-Old School in the Age of AI”*, 4 Apr 2025 (9000+ views)
- Academic–Business Forum, WSB Gdańsk: *“AI Is Changing the Way We Think About Education: What Lesson Must We Learn?”*, 20 Nov 2025
- Plenary lecture for the 80th anniversary of Cracow University of Technology: *“Generation Alpha and AI”*, 27 Mar 2025
- Opening lecture, *“The University in the Age of AI”*, Medical University of Warsaw: *“AI and Generation Alpha at Universities”*, 9 May 2025
- Opening lecture, Learning Festival at John Paul II Catholic University of Lublin: *“A Global Shift in Thinking About Learning: AI and Generation Alpha at Universities”*, 13 May 2025
- Opening lecture, 5th Didactic Symposium and 100th anniversary of the Poznań University of Economics: *“AI and Didactics”*, 13 Jun 2025

Over 40 keynote lectures delivered at national conferences.

Expert Panels 2023–2025

Selected expert participation in national debates on the future of education:

- AGH University of Science and Technology, Kraków – debate: *“ChatGPT and AI vs. Academic Teaching”*, 20 Sept 2023
- Collegium da Vinci, Poznań – debate: *“AI: Support or Disruption for the Education System?”*, 26 Oct 2023
- Polish Academic–Business Forum, Warsaw University of Technology – debate: *“Digitisation of the Economy – Where Will AI Lead Us?”*, 6 Mar 2024
- Jagiellonian University – debate: *“AI in Academic Teaching”*, 14 Mar 2024
- LOCAL TRENDS, Sopot – debate: *“How to Support Employees in Achieving Results in Local Government?”*, 13 May 2024
- Congress of Young Science – debate: *“Science Beyond Divisions”*, 13 Sept 2024
- Collegium Vratislaviense – debate: *“The New Role of Teachers in the Era of AI Tutors”*, 20 Sept 2024
- Hevelianum Science Centre – debate: *“Science Says AI”*, 30 Sept 2024
- WSB University in Poznań – Centre for Quality and Innovation, 6th Academic Quality Forum – debate: *“Education in the Age of AI”*, 15 Oct 2024
- European Solidarity Centre – debate: *“The Future of Education in Poland”*, 28 Nov 2024
- Cracow University of Technology – debate: *“The Future (in) Education”*, 28 Mar 2025
- Poznań University of Economics – debate: *“Why Learn in the Age of AI?”*, 7 Apr 2025

- 5th Academic Forum, Medical University of Warsaw – debate: *“How AI Language Models Are Transforming Teaching Methodologies and Academic Practice”*, 9 May 2025
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Director of the Center for Innovative Education (CIE)

Creator of the vision, mission, values, and tasks of the unit (since May 2020), and Director since its formal establishment at Gdańsk University of Technology (1 Mar 2021). Originator of all CIE initiatives. Selected data:

- 189 educational institutions (including 82 universities) participated in CIE PG programs
- 160,000+ views of educational videos on YouTube, 341 educational videos published
- 15 training and development programs for Gdańsk Tech instructors, including:
 - Didactic Innovation Contest
 - EduShare: the Recognition Program for Teachers
 - “Active Learning at Gdańsk Tech”
 - “Growth Mindset”
 - “Mental Resilience of Academic Teachers”
 - “Tutoring at Gdańsk Tech”
 - “Łatfizna: Physics Learning Support Program for First-Year Students”
 - EDUxAI strategy at Gdańsk Tech
 - “Teaching Excellence Gala”
 - Certified Training Courses
 - Custom-ordered Training
 - Didactic Mentoring
 - Methodological Consultations
 - Student and PhD Student Workshops
 - Individual and Team Coaching
 - CNE Radio
- 4,500+ participants in training programs and conferences
- 7 national didactic conferences organized (1250 participants, 189 institutions including 82 universities – 15 technical – and 107 schools, governmental institutions, NGOs, and education companies; 151 recorded presentations published on YouTube)
- **Didactic Fridays** – an open training program for academic staff from Polish universities:
 - 105 sessions (105 unique topics), 920 participants, 94 institutions including 67 universities
 - 64 recorded videos, 31,000+ views (most sessions delivered by Joanna Mytnik)
- **Mondays at the University of Technology** – open training program for school teachers:
 - 40 training sessions (40 topics), 16 recordings on YouTube (31,200+ views), 2000 participants
 - 134 participating institutions: 33 universities, 50 primary schools, 44 secondary schools, 7 teacher training centers, and 2 school boards

- (most sessions delivered by Joanna Mytnik)
 - **Certified training** – over 500 Gdańsk Tech academic teachers trained (representing 40% of staff); more than 2,500 training certificates issued (a significant portion of the training was delivered by Joanna Mytnik)
 - **Teaching Excellence Gala** – an event to honor the most dedicated and engaged educators at Gdańsk Tech
 - **EduSHARE** – a recognition program for the most charismatic and committed lecturers; 47 awardees since 2023
 - **Didactic Innovation Contest** (since 2020) – 157 submitted applications, 47 grants awarded for didactic innovation (total value PLN 800,000)
 - **Popularization of gamification as a didactic tool at the university** – 15 narrative, semester-long motivational game-based systems developed for specific courses, including 5 RPG-style applications
 - **Author of the EDUxAI strategy at Gdańsk Tech** – includes staff training, a network of AI methodology ambassadors, e-learning courses, a resource repository, and student webinars (“GenAI and Writing a Thesis”)
 - **Coaching for teachers** – individual, group, and leadership coaching: over 300 sessions for academic staff
 - **Project leader for “Excellence in University Teaching” (PLN 1 million budget)** – author of the initiative, responsible for project management and reporting
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Teaching

- "Effective Learning, Development, and AI" (1st-year Civil Engineering, compulsory)
 - "Didactic Methods in the Modern Teaching Process" (Doctoral School, compulsory)
 - "Distance Learning Techniques" (Doctoral School for Implementation Doctorates, compulsory)
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Cooperation with the Student Government

Ongoing collaboration with the Student Government of Gdańsk Tech:

- lectures during Mental Health Week (2024)
 - public speaking workshops (2023, 2024)
 - lectures during Student Quality Days (2023, 2024)
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Leaders’ Panel of Teaching Centers

Founder and organizer of the annual meeting of leaders of university centers for teaching excellence and faculty development in Poland.

Gdańsk Tech Employee Development Academy

The Employee Development Academy of Gdańsk University of Technology is a comprehensive program supporting the professional and personal development of university staff. It offers five developmental paths:

- teaching
- leadership
- organizational
- implementation & social
- research

Co-creator of the concept and full program. Author of the teaching path.

Published article:

Mytnik J., Dziegielewska K., Leja K., Wilde K. (2025). *How to Build a New Organizational Culture at Polish Universities?* Forum Akademickie, 5/2025.

Activities for Changes in Academic Teacher Evaluation

Member of the working group responsible for redesigning the evaluation criteria for academic teachers at Gdańsk Tech – moving from a points-based system toward qualitative self-assessment.

Activities in Primary and Secondary Education

- Trainings for teaching councils (11 primary schools, 11 secondary schools, 13 universities, 13 supporting institutions including teacher development centers and NGOs)
- Cooperation with national teacher development centers, including:
 - Małopolska Centre for Teacher Development
 - Mazovian Centre for Teacher Development
 - Centre for Education and Development – PROGRESOWNIA
 - Teacher Development Centre in Piła
 - Teacher Education Centre in Koszalin
 - Wrocław Centre for Teacher Development
 - Provincial Methodological Centre in Gorzów Wielkopolski
 - Warmian–Masurian Teacher Development Centre in Elbląg
 - Regional Centre for Teacher Development and Pedagogical Information
 - WOM Rybnik
 - Non-public Teacher Development Centre “Szkoła Pamięci Sensos”
 - Olsztyn Education Centre
 - Lubuskie Provincial Methodological Centre
 - Masurian Teacher Development Centre
 - Siedlce Teacher Development Centre

- National open webinars for students and school pupils on *Neuroscientific Foundations of Learning* – over 6,000 views (YouTube)
 - YouTube channel *Joanna Mytnik on Education* – free training for teachers across all education levels: 42 lectures, 53,000+ views
 - Open online trainings on Artificial Intelligence in Education – 28 recordings, over 22,000 views
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Online Resources (Selected)

- CIE website: <https://cne.pg.edu.pl>
- Personal website: <https://www.joannamytnik.com.pl>
- YouTube CIE channel: <https://www.youtube.com/@cnepg>
- Playlist *Joanna Mytnik on Education*:
https://www.youtube.com/playlist?list=PL9bPU5O-mnd_GTxqzgbUDrP_AzNFyJtVU
- Employee Development Academy:
<https://chr.pg.edu.pl/rozwoj-zawodowy/akademia-rozwoju>
- Article in *Forum Akademickie* on organizational culture:
<https://miesiecznik.forumakademickie.pl/czasopisma/import-2025-06-03-1750/jak-budowac-%E2%80%A8nowa-kulture-organizacyjna-%E2%80%A8na-polskich-uczelniach%E2%80%A9/>
- Academic Didactics Conference *Ideatorium*:
<https://link.pg.edu.pl/grywalizacja>
- *Gamification in Education* Conference:
<https://cne.pg.edu.pl/kalendarium/grywalizacja-w-edukacji>
- Article on CIE in *Trójmiasto.pl*:
<https://www.trojmiasto.pl/nauka/Nowa-jakosc-dydaktyki-na-Politechnice-Gdanskiej-innowacje-ktore-zmieniaja-edukacje-w-Polsce-n201810.html>