



dr Adam Trybus is a logician and philosopher, an assistant professor at the Jagiellonian University, specializing in critical thinking, the analysis of reasoning, formal logic, philosophy of logic, and their applications in argument analysis and artificial intelligence. He obtained his PhD from the University of Manchester, where he conducted research on the foundations of logic and geometry and their formalization. His research interests cover a broad spectrum within the research on reasoning: from the history of logic and its philosophical foundations, through the development of formal systems, to computational applications and critical thinking. His work includes spatial logics, non-classical logics (particularly paraconsistent ones), as well as refutation calculi and their implementation. An important area of his research is also the history of logic, with particular attention to figures such as Bertrand Russell and Leon Chwistek, as well as the development of modern approaches to geometry in logic.

He teaches in both Polish and English, offering courses in logic, analytic philosophy, artificial intelligence, and critical thinking. At the Jagiellonian University, he teaches the course Critical Thinking in the Age of AI, attended by international students. These classes focus on developing skills in argument analysis, identifying logical and cognitive fallacies, evaluating the credibility of information, and the reflective use of AI-based tools. In his teaching, he integrates formal logical methods with practical critical thinking competencies.

He collaborates with Copernicus College in developing critical thinking courses aimed at a broad audience. He also co-created an international critical thinking course available on Coursera, developed together with Barbara Oakley and Terrence Sejnowski. The course provides tools for analyzing reasoning, recognizing logical errors, and making more rational decisions across various cognitive and professional contexts. He is also involved in initiatives aimed at promoting critical thinking among younger audiences, working on an educational program for teenagers focused on developing logical reasoning skills, critical information analysis, and responsible functioning in the digital environment.

An important aspect of his work is also translation, including translations of academic and educational texts from English. Among them is the book *Uncommon Sense Teaching* by B. Oakley, T. Sejnowski, and B. Rogowsky, devoted to effective methods of learning and teaching. This activity is closely connected to his didactic interests and research on cognitive processes and the development of critical thinking competencies.

He also runs his own educational YouTube channel, where he shares materials on logic, argument analysis, and tools supporting learning and academic work, extending his teaching and outreach activities.

Currently, he is also engaged with the latest artificial intelligence systems, participating in their development and applications. In particular, he is involved in the development of the Bielik system, combining his interests in logic, formal reasoning, and modern natural language processing methods.

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