

DR. PIPIH NURHAYATI, M.Pd.

Science Education Researcher | Educational Interventions | Learning Development | Mixed Methods Research

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PROFESSIONAL PROFILE

Science Education researcher with expertise in educational interventions, learning development, behavioral change, and research instrument development. Experienced in mixed-methods research, educational evaluation, and the design of innovative learning environments. Research interests focus on how educational interventions influence learners' reflective thinking, open-mindedness, behavioral development, and learning outcomes. Active contributor to national educational transformation initiatives, teacher professional development, and AI-supported learning research.

CORE EXPERTISE

- Educational Intervention Research
- Mixed Methods Research
- Research Instrument Development and Validation
- Learner Development
- Educational Evaluation
- School-Based Research
- Teacher Professional Development
- Survey Design and Data Analysis
- AI in Education

EDUCATION

- ⇒ Ph.D. in Science Education, Universitas Pendidikan Indonesia (2026)
Dissertation: *How Open-Mindedness Influences Reflective Thinking Skills and Meta-Affective Development Through Individual and Group Reflections in Science Learning Trajectories*
- ⇒ M.Sc. in Science Education, Universitas Pendidikan Indonesia (2012)
- ⇒ B.Sc. in Biology Education, Universitas Pendidikan Indonesia (2007)

CURRENT POSITION

Lecturer, STAI Siliwangi, Indonesia

Teaching science education and research methodology; supervising undergraduate research; developing educational innovation and quality improvement initiatives.

SELECTED RESEARCH AND LEADERSHIP EXPERIENCE

- Co-Researcher, AI-Identifier Based Science Learning (AIISL), 2024–2026
Conducted mixed-methods research on AI-supported science learning, instrument development, educational intervention design, and learning analytics.
- Facilitator, School Mobilisation Program (Sekolah Penggerak), Ministry of Education, Indonesia, 2022–2025
Supported curriculum implementation, teacher development, school improvement, and educational transformation initiatives.
- National Instructor, Madrasah Competency Assessment (AKMI), Ministry of Religious Affairs, Indonesia, 2022–2024
Delivered assessment literacy training and supported evidence-based educational improvement across Indonesian madrasahs.

SELECTED PUBLICATIONS

- Meta-affective Progression in Science: A Cross-Sectional Study of Junior High School Students. *Acta Psychologica* (Q1, Elsevier, 2025)
- Opening Minds, Fostering Reflection: A Pathway Analysis of Open-Mindedness and Reflective Thinking Skills in Science Education. *Social Sciences & Humanities Open* (Q1, Elsevier, 2025)

PROFESSIONAL SERVICE

Reviewer: BMC Psychology, Scientific Reports, Discover Education, IJCRSEE