Creating an Intercultural Laboratory for Good Practice Using AI

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IQ-LAB
Lab for Community of Inquiry in a Global Citizenship
Agenda

1) The basic idea
2) The participating universities
3) P.I.A Concept
4) Research Methodology and Tools
5) Current data
The participating universities

CDU
Charles Darwin University Australia

UBB
Babes-Bolyai University Cluj-Napoca

LUE
Ludwigsburg University of Education
The basic idea
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- Future Teacher Training in Lab Environment
- Artificial Intelligence
  - Intercultural Learning
  - Digitalization
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- Future Teacher Training in Lab Environment
  - Artificial Intelligence
    - Intercultural Learning
    - Digitalization
The basic idea

- community of inquiry
- focused in intercultural learning and global citizenship
- bring together
  - initial teacher education students,
  - research students, and
  - faculty to co-design participatory action research
- IQ-Lab aims to teach competencies
  - on a case-specific basis and
  - under controlled international conditions,
  - taught in practice, and
  - furthermore tested, optimized and consolidated on a field-specific basis
- using ChatGPT
PIA-Concept

- IQ-LAB TEAM feeds P.I.A. with chat topics
- OMS
- CDU Students
- UBB Students
- LUE Students
- Journal + OMS
- CDU Students
- UBB Students
- LUE Students
- Journal + OMS
- CDU Students
- UBB Students
- LUE Students
- Journal + OMS
- Reflection

CDU: Charles Darwin University
UBB: Babeș-Bolyai-Universität Cluj
LUE: Ludwigsburg University of Education
Prompting Pattern in PIA-Concept

Prompt Formulation

Query

Let's conduct a role play, you and I. You play the character of [name for parent], and I play the character of [name for teacher/student's role]. We engage via chat messages. Let's both stick to our roles the entire time.

Context

[description of scenarios varying in all three chats, compare Table 2]

Query

Make up a character for [name of parents (and other characters involved in the context)] and engage in a conversation with me. From now on, act as [name of parent]. Make up [their] socio-economic background and use language and manners that fit [their] background. Start with [a specific text to the teacher based on the context]. Do not use explanations. Do not include notes on the character of [name of parent].
Three Contexts for PIA-Concept

Prompt Formulation

1st Context/Scenario
You are Nina, and I am Alex. Nina’s son Rick is my student. I am Rick’s teacher. Rick is 14 years old, and he usually is doing well in school, but over the course of the last month, you have noticed that Rick is not as attentive as usual, and his grades are not as high as usual. Sometimes, he also interrupts the class, which he usually would not do. Nina does not know about that yet.

2nd Context/Scenario
You are Lily, and I am Alex. Lily’s daughter Molly is my student. I am Molly’s teacher. The other day, Molly bullied her classmate Phil, who is from Vietnam, because he does not speak Molly’s first language well. I was furious about it. Today, Lily starts the conversation, stating that I was overreacting.

3rd Context/Scenario
You are Eva, and I am Alex. Eva is a mother from Vietnam. Her daughter Giang is on a school year abroad at my school. Giang is my student. The other day, Giang told her mother, Eva, that I (Alex) behaved racist in class. Eva is furious about it. She acts very offensively, calling Alex out for that behaviour. Make up the incident and what Giang told Eva.
Example Sequence from Chat Transcript

IQ

As I am looking back at my behaviour I do not know when and what I did wrong but I am always open for any criticism especially from students. I can not change anything about my behaviour if I do not know in which ways I offended your daughter. I always thought of me as a very open-minded person that is why I am so confused right now. So please explain the situation to me in order for me to change my behavior.
Example Sequence from Chat Transcript

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(As Eva)

You really don't remember? Giang told me that during a class discussion about cultural diversity, you made some hurtful comments and jokes that targeted her and other students from different backgrounds. She felt humiliated and isolated because of your words. I don't understand how you could forget something like this. It's not about being open-minded; it's about being respectful and sensitive to others' feelings. You need to be more aware of your words and actions, especially in a diverse classroom like yours. Apologize to Giang and show that you truly understand the impact of your words.
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IQ

Indeed it has nothing to do with open-mindedness when we are talking about other people's feelings, you are absolutely right. I am unbelievably sorry for any bad feelings Giang had after attending the discussion. I wasn't aware of my behavior and also wasn't aware of me being hurtful towards her and other students.
Research & Data
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Participatory Action Research: Mixed-Mode Approach (quantitative and qualitative Methods) to study richness of process

• Journals & Reflections assessed by Grounded Theory and Content Analysis
  Example for Journal (Eva): “harder to know what to respond (at first I didn’t know whether to say yes it is true or to deny any accusations being made) because I was completely overwhelmed with the interaction going”

• Questionnaires: Academic Engagement Scale (AES), Scale of Ethnocultural Empathy (SEE), Sustainable Communication Scale (SCS) (tbd)
Key Learnings from Pilot
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● Central Finding: Students (n=6) report this as a fruitful approach for intercultural learning in a safe environment

● Learnings on how to build the lab and the scenario:
  ○ Match student’s expectations of reality with the lab scenario
  ○ Make the lab scenario challenging
Open questions & discussions