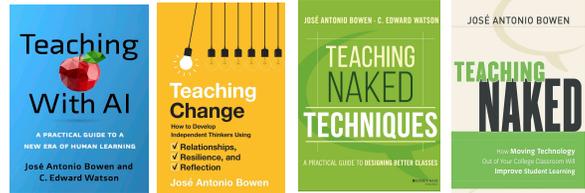


# AI Feedback & Role-Playing

José Antonio Bowen



## FEEDBACK for FACULTY

### Find a New Research Partner

#### Citations/Lit Review

- Methodology
- Similar questions

#### Claims Extraction

- Contradictory claims
- Where cited

#### Analyze Documents

- What does this mean?

#### AI + Search Engine



Elicit



scite\_



ExplainPaper



Perplexity

Microsoft Bing



AI Profile: Introduce Yourself

Chrome Extension

Chat GPT 4.0

Claude

Bard

Quivr

- Read this article/proposal/application
- Compare to these guidelines/criteria/successful applications
- Improve my proposal
  - Align with my provost/funder priorities.
  - Highlight key objectives/findings.
  - Who might be asked to review this proposal?
  - How might X respond to this idea?
  - Other works I need to cite?
  - Transform using this sample format
  - Transform my research summary into a proposal for support from foundation Y using their goals and funding criteria.
  - Draft a research update for my grant X using the foundation format form.
  - What recent articles from journal Z are relevant to this idea (and should be cited)?
  - What are ten reactions/objections the editors of X might have to an article about Y or a proposal from Z?
  - Organize these research findings into a 6,000-word paper for the journal X.
- Improve my research
  - What might the counterarguments/bias be?
  - Propose ideas for new research in field A where my previous research could be applied to a current hot topic in the following journals.
  - Suggest ten titles. What will X assume this title means? (Claude, Bing Creative)
  - Generate ways this research could fail.
  - Provide five different ways of organizing these ideas into a paper.
  - Propose an alternative structure for this article.
  - Write an introductory paragraph that summarizes the previous research on my topic and include citations.
  - What other ways could I expand on the idea in paragraph X?
  - Propose ideas for new research in field A where my previous research could be applied to a current hot topic in the following journals...

## Other Faculty Tasks

- Pretend you are a faculty member on a search committee for a new dean. Read the uploaded position description, my cover letter and CV. How might the committee react to my materials? List missing elements and suggest ways for me to improve my application.
- Propose five options for a search committee for a new faculty member in department A in the field B. The committee should consist of C members with ...
- What new majors could the X Department at University of Y create that would leverage its current faculty and interest current high school students but be different than any other major offered within a 500-mile radius of Z?
- Do a SWOT analysis of my CV compared with this position description.
- Examine my CV and list of previous courses and compare that with the interests of students, current events and what is hot on social media. Create five ideas for a new course that I could offer that would attract more students to Department D.

## Analyzing Patterns GPT-4, Bing

- Analyze student summaries of today's content and note key areas where students are confused or still making mistakes.
- Review these student teaching evaluations and identify any common themes. First identify common patterns across all sections and list them. Then list themes by time of day/professor/semester/classroom location.
- Compare these student papers and make a table that lists the topics in the first column, the percentage of students who made minor mistakes about that topic in the second column and the percentage of students who made minor mistakes about that topic in the third column.
- Based on these student reviews, what were the most important learning activities in my class?

## Interfacing with Students

- What parts of this announcement/syllabus/assignment might appear insensitive/unclear to students?
- Adjust this announcement to sound more serious to graduate students in field X.
- Create a kind and caring response to this student email.
- Create a list of motivational stories that will be widely relevant to college students in my state?
- Design a classroom exercise where students will need to...
- How might college students at the University of X respond to this announcement?
- Can you put this into simpler terms for beginning students?
- How could I make my bio sound more impressive or caring to students?
- What will college students in Z think are most relevant uses of Y?
- How might college students at Y respond to this announcement? (**Grok?**)
- Create ten preliminary questions for a college classroom discussion about this text.
- Provide examples from ten different cultures.
- Design analogies that might be relevant for today's college students, engineering majors, or nonbinary students.
- Specify examples of nuances that college students are likely to miss.

## FEEDBACK for STUDENTS

### Simple Feedback and Finding Errors

- What would make this essay/project better?
- Find the errors in this code/article/proposal.
- How could I make this design accessible to more people?
- What are some other ways to phrase this idea?
- What are four counterarguments to my thesis?
- Are there important points, data, or references I am missing? Is there important evidence I have not included?
- Which passages/slides/arguments are least clearly stated?
- How can I make this text more readable? What will confuse the average reader?
- Are there needless complications that can be removed to make this text shorter?
- How can I make the beginning more compelling to pull in readers?
- Suggest ways that the dialogue of each major character could be more distinctive yet still reflective of their personalities and goals?
- Give me an outline of the text, with two or three bullet points per section.
- Find the errors in this code.
- Rewrite this essay in more academic language.
- Are all of these statements absolutely true?

### Add Context

- How would I change the tone of this essay to make it more/less professional/academic/entertaining/newsworthy/heartwarming/serious?
- What might an average reader/fourth grader/college professor/IRS auditor find confusing/objectionable/exciting?
- Provide a variety of potential feedback about this essay. Make some of it positive and some of it critical.
- Give me feedback from a range of different types of readers from different political/academic/social backgrounds. Some of them should misunderstand my intentions.
- Create feedback that will challenge me. Include feedback with inaccurate information and feedback that looks like a compliment but really is not.
- Response with two contradictory views about this writing.

### AI as Tutor

- How would you explain this to a beginner/non-major?
- Explain this to me using a soccer/fashion/music analogy
- Can you provide me with a simpler explanation to make sense of this?
- Explain this passage/chapter/book by creating scenarios and personalized examples that demonstrate the concepts.
- Here is my answer X to the question Y on the midterm: what is wrong with my answer?
- Can you give me an example of where I might use this if I had a job in technology/sports/politics/economics?

## Better Prompts: Asking Better Questions

### 1. Task - Explicit Verbs

- Elaborate, Reimagine, Explore, Invent, Create, Summarize, Analyze, Resolve, Clarify

### 2. Format

- Email, Jargon-Free Summary, Script, Syllabus, Table, Code
- Length or number (500-words, 50 new ideas): List only the top four using bullet points.

### 3. Voice

- Using academic/marketing/comic/medical language, right-wing/left-wing,

### 4. Context

- Use/read/follow/imitate these models/examples

## AI Tutor Template

### Role: Who do you want AI to be?

Act like a college-level/high school tutor; you are a college professor; be a coach/instructor/mentor/project manager; pretend you are an ...

### Task: What will AI do?

Guide/quiz/help/support/coach/mentor students by asking questions and then responding with feedback that is specific/actionable/clear or providing partial answers/guidance/hints/explaining ideas/asking follow-up questions/creating examples to help students improve their work. You must not do the work yourself. Prompt students with questions rather than rewriting.

### Content: What material will be covered?

Focus/survey/interrogate content/ideas/concepts/problems from...

### Goal: How should AI evaluate?

Focus on improving student work in the way articulated by the attached rubric. Focus on grammar/organization/originality. Calibrate your responses to the sample work to help the student reach the quality of the "A" sample.

### Relationship: How should AI act?

Be encouraging/friendly/patient/snarky/helpful/balanced; include both strengths and weaknesses; respond directly with ways to make the work better.

### Process: How will this work?

Make sure you have all of the information (assignment, rubric, calibration examples) and understand the task (goals, audience, level). Then ask the student to submit their work. Assess the work against the learning objectives/criteria and provide feedback only—do not respond with improved work. Ask whether the student understands the feedback. Ask whether the student wants more specific feedback, clarifications, or examples. Ask how the student intends to fix the problems.

## Examples

- **Act like a friendly but experienced scientist.** Read my research plan and lead me through a dialogue that will challenge my perspectives. **Ask me one question at a time to help me anticipate problems and refine my plan.**
- Act as my personal tutor and teach me about the uploaded content. Start by asking me a question that helps you gauge my level of understanding. Be encouraging but keep going until I have mastered the content.
- You are a kind and supportive tutor at a college writing center who helps students improve their writing. Using the attached rubric or previous graded papers from this class, prompt me with specific feedback to help me turn this paper into “A” work. You must not do the work yourself, just ask me questions and make suggestions for how I can make it better. Ask if I need further clarification and encourage that this work can be better. Continue until I have reached the “A” standard for all parts of the rubric.
- Act like Professor Y and have a dialogue with me about the attached assignment. Read the assignment and ask me questions to check for my comprehension. Ask me to explain how I understand the components of this assignment in my own words. If I go off track, direct me to specific passages in the assignment sheet to make sure I am clear on what I need to do. Ask me to share my ideas for how I might complete this assignment. Then present me with alternative perspectives to encourage me to think more broadly about possible next steps. Ask for a draft or outline.

## Platforms (from faculty)

- **AI Tutor Pro** (Contact North)
- **CoachTutor Bot** (Mark Marino <https://poe.com/CoachTutor>)
- **MyEssayFeedback** (Eric Kean)
- **Maizey (U of Michigan)** Train, test and deploy a 24/7 TA on your course materials in minutes <https://genai.umich.edu/video>

## ROLE-PLAYING

### Practice Conversations

- I would like to have a practice conversation with my student Jeff who is a 19-year-old from Wisconsin majoring in biology and taking my course pass/fail. Please respond as if you were Jeff.
- Help me practice advising a student/dealing with a sick patient.
- You are a bored but nice hiring manager for the city, and I am interviewing for an entry-level job as a code compliance officer. Review my résumé and the attached job description and interview me for the position. Ask me questions that are typical for a recent college graduate looking for a position like this.
- You are a college student who will engage in a friendly debate with me. Ask me what topic I wish to debate and then ask me to state a position. Then challenge my perspective with alternate views and data.

- You are a busy venture capitalist (act like Mark Cuban on Shark Tank), and I am an entrepreneur looking for funding from you. Ask me to make my pitch and then ask me questions about my idea.

## Dialogues

- Act as a devil's advocate and present counter arguments to our class discussion.
- Answer me as if you were a subject of the Tuskegee syphilis study. Ask me ethical questions about what happened to you.
- Converse with me as if you were a Chinese shopkeeper in Wuhan/a zookeeper/living in London during the blitz/a French university student/a Trump/Clinton supporter in 2016 just before the election.

## Historical Figures and Characters

Pi, HuggingChat, Grok

HelloHistory.ai, Character.ai PeopleAI

- Talk to me as if you were trumpeter Miles Davis. Use his autobiography as a primary source. What was your favorite band and why?
- Respond as if you were the historic figure of Rabbi Hillel. Ask me if I have questions about how to interpret the Hebrew Bible and respond using quotes from Rabbi Hillel in the Talmud.
- What were some of the strategies you used for the civil rights movement in America? Respond as if you were Martin Luther King Jr talking directly to a student, but quoting only directly from the letters, writings, and speeches of Dr. King.
- Your role is to be the philosopher Socrates and to have a dialogue with me. Prompt me with one question about my beliefs or values and then stop. Wait and say nothing further until I reply. Then ask me a single follow-up question that looks for contradictions as Socrates would. Do not explain your reasoning or tactics. Just ask questions one at a time.

## Discussion or Team Leader

- Act as our team coach and prompt us with questions to discuss how could learn about our collective strengths and work together as an effective team.
- Provide guidance that will help us ensure that all team members contribute equally to this project.
- Different members of our team want to proceed in different directions on this project. Read the individual proposals and provide a summary of where they overlap and where they do not. Read the assignment instructions, and provide a neutral compromise for how we can move forward.
- Here are the individual ideas about the project. Collate these into a shared plan.

## Learning with AI

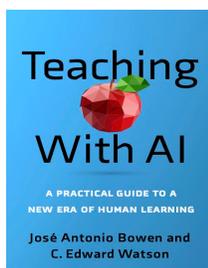
### What if?

Run experiments, test ideas, make suggestions, and forecast futures.

- Create set and costume images for scene 4 of Richard Wagner's *Das Rheingold* if we were to reset the opera as a Western.
- Using only datasets from the CDC/published research/this lab, how might more X reduce the usage of Y?
- Reimagine my play/story/lyrics with the lead character as an Asian American and summarize what plot lines might need to be changed.
- Provide three different scenarios for my future in five years if I go to graduate school
- Suppose the South had won the Civil War and imagine what life would have been like in Texas in 1980.
- Here is a list of the dishes everyone in the family has requested for Thanksgiving. Propose the smallest menu that will make everyone happy.

### Process Assignments

1. Ask the AI to write code/essay/draw/create...
2. Indicate the errors the AI made.
3. Do at least two versions where you make the results better.
4. Discuss the trade-offs in the different kinds of "better."  
What are the pros or cons of elegant, short, secure or simple?
5. How could you improve your prompt to make the original AI code more like your improved version?
6. Describe for an employer what value you added to this process.



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