

**AI, Education, and Ethics for a Changing World****August 20, 2025****Link to the recording:** <https://youtu.be/FFBjiocecjo>**eePRO post:** <https://eeepro.naaee.org/learning/ai-education-and-ethics-changing-world>**Speakers:****Edwin Goutier, LaunchPath****Jake Baskin, Computer Science Teachers Association****Joan Haley, Shelbourne Farms****Judy Braus, Executive Director, NAAEE****Carrie Albright, Senior Communications and Data Specialist, NAAEE****Highlights of the chat transcript:****Welcome!**

- Colleen McDaniel: Colleen from Hillsboro, OR
- Ann Brown: Greetings from Ann Brown, Livermore, CA.
- Molly Allen: Hi Everyone! Molly Allen, Medford, OREGON
- Melissa Andersen: Mel Andersen (she/her) in St. Paul, Minnesota
- Naya Black: Naya Black, Baton Rouge Louisiana
- Erika Schielke: Hello! Erika Schielke from Glens Falls, NY
- Ralph Fleming: Hi I'm Ralph, I'm from Tonbridge in the UK
- Kendall Juell: Kendall from Greenville, SC
- Caroline Busic: Caroline Busic in Nashville, TN
- Amanda Purnell: Amanda Purnell, Stuart, FL
- Erin Muldoon: Hello! Erin from Cincinnati, OH
- Callie Sommers: Hi I'm Callie from Cleveland, Ohio
- Rachel Shaffer: Rachel Shaffer from Des Moines, Iowa. I'm an educator at Blank Park Zoo
- Ariane Clark: Ariane from Kodiak, AK.
- Martha Monroe: Lovely to see Judy and Joan! Martha from Gainesville
- Martin Oloo: Martin Oloo of Fablab Winam, Kisumu, Kenya
- Barry Grossman: Barry, a university educator, from Japan
- Elliot Frei: Elliot from Utah. Thanks for having us!
- Addie Mazza: Addie Mazza (she/her) St. Paul, MN
- Billy Spitzer: Billy Spitzer, Hitchcock Center for the Environment, Amherst MA
- Tara Poelzing: Tara from Roanoke, VA
- Angie Marcus: Angie Marcus, Marietta, GA
- Whitney Hale: Hello! Whitney Hale, University of Tennessee Gardens Knoxville
- Madeline Reilly: Madeline from Vermont!
- Ken Benton: Ken Benton from North Branch Nature Center in Montpelier, VT
- Molly Westbrook: Molly from MD!
- Ingrid Norris: Ingrid from Spartanburg, SC
- Adrienne Rayna: Pennsylvania
- Jennifer Wilber: Jennifer Wilber, Cleveland OH
- Kourtney Boone: Kourtney Boone in Lagunitas, CA!
- Alexandra Coombs: Greetings from Newark, Delaware

- Susan Swain: Greetings from Sue from South Africa
- Stacey Jensen: Stacey Jensen, Columbia, South Carolina
- Tasheena Powers: Tasheena from MS, informal education.
- Tabbi Kinion: Hi from Western Colorado
- Pritimah Rathoa: Hello, It's Pritimah here, from Mauritius
- Michele Martin: Michele martin from Waterloo climate institute in Ontario
- Asek Nkongho: Hello Asek from Cameroon
- Anne Umali: Hi everyone, joining from Wilmington, NC
- Kendra Liddicoat: Kendra from Stevens Point, Wisconsin.
- jd williams: Toronto, Ontario 🇨🇦
- Sarah Chabaane: Sarah from Morganton, NC
- Angel Burns: Angel Burns, Delaware
- Preethi Mony: Preethi Mony, NAAEE, Columbus, OH
- Adrienne Rayna: Bioregional Group, Delaware River
- Perry Thomas: Perry Thomas from Louisville, KY
- Harrison Jackson: Harrison from Winchester, VA
- Carrie Alward: Carrie Rhode Island
- Mark Lantsberger: Mark Lantsberger from San Diego CA
- Grace Charabati: Grace Charabati (NAAEE) from Virginia, USA
- Sarah Wolf: Sarah Wolf from Indiana
- Carrie Albright, NAAEE Staff: This is such an exciting topic—so glad to have you all joining us today! Please share your name, organization, and where you're joining from.
- Dave Miller: Dave Miller from Breckenridge Colorado
- Hap Clemons: Olympia, Washington
- Liz Perotti: Liz, Oregon
- Onnr Grogan: Onnr from North Carolina
- Tracy Warwick: Tracy, Milwaukee
- Lawrence Friedman: LAWRENCE FRIEDMAN, Chicago
- Ariel Lumpkins: Ariel (NAAEE) from Maryland
- Andrea Huntoon: Andrea Huntoon, Appleton, WI
- Hyejin Kim: Anna, VA
- Jennifer Albert: Jen, SC
- Marie Hathaway: Marie from Philadelphia
- Mphemelang Ketlhoilwe: Hi everyone! MJ from Botswana
- Keith Willoughby: Keith Willoughby from South Carolina
- Idah Murithi: Idah Murithi from Kenya !
- Angel Beteran: Angel B, from California
- Neysa Gabriel: Hi everyone! Neysa from Atlanta! Distance Education.
- Ven Silveira: Venessa, England. Currently at University of Georgia.
- Gordon Branston: Hi, greetings from NE Scotland!

**Question: How much do you know about AI? 1=I'm an expert! 2=I know just enough to be dangerous 3=Pretty much nothing**

- Andrea Huntoon: 2
- Addie Mazza: 3

- Elena Takaki: 2
- Celeste Royer: 3
- Erika Schielke: 2
- Alexandra Coombs: 2
- Sarah Wolf: 3
- Sarah Chabaane: 2
- Kendall Juell: 3
- Adrienne Rayna: 3
- Stacey Jensen: #3
- Ariane Clark: 2
- Colleen McDaniel: 2
- Barry Grossman: 2
- Heather Lauer: 2
- Callie Sommers: 2
- Perry Thomas: 2
- Tara Poelzing: 2
- Hyejin Kim: 2
- Molly Westbrook: 2
- Molly Allen: 2
- Angie Marcus: 2
- Alexandra Paulino: 3
- Onnr Grogan: 2
- Jerran Orwig: 2
- Ingrid Norris: 3
- Carrie Alward: 2
- Idah Murithi: 2
- Melissa Andersen: 2
- Ana Leirner PLT-SFI: 2
- Amanda Karls: 1
- Erin Muldoon: 2
- Ralph Fleming: 1 – 2
- Janice Milanovich: 2
- Billy Spitzer: 2
- Madeline Reilly: 3
- jd williams: 2
- Angel Burns: 2
- Mark Lantsberger: 1
- Liz Perotti: 3
- Marty Wiggins: 2
- Katrina Schlicker: 2
- Shannon College: 2
- Preethi Mony: 3
- Whitney Hale: 2
- Naya Black: 2
- Gonzalo Bermudez: 3
- Anne Umali: 2 😊

- Ken Benton: 2
- Tabbi Kinion: 1
- Russanne Hoff: 3
- Keith Willoughby: 2
- Martin Oloo: 3
- Tania Marien: 2
- Caroline Busic: 1
- Kendra Liddicoat: 2
- Lawrence Friedman: 2
- Emily Newman: 2
- Susan Swain: 2
- Jennifer Kelly: 2
- Ariel Lumpkins: 2
- Rachel Shaffer: 2
- Angel Beteran: 1
- Kourtney Boone: 3
- Robert Sendrey: 3
- Tarquinn Curry: 1
- Carolyn Everhart: 3
- Gordon Branston: 2
- Jennifer Albert: 2
- Pritimah Rathoa: 3
- Molly Gillespie: 3
- Themba Nkuna: 2
- Aigul Rakisheva: 2\
- James Akenson: 3
- Scott Johnson: 3
- Jessica Nyaribo: 3
- Arlene Marturano: 3
- Caroline Busic: 3
- Michele Martin: 2,5
- Asek Nkongho: 3
- Luz Antonio: 2

## **Presentation**

### **Section 1: Edwin Goutier**

- Mohamed Golden: Google note books. If you use to answer to some questions of filling a form was it possible to not understand that you have taken these documents from AI
- Rebecca Peterson: How do you address intellectual property issues with things like grant applications? If you are an academic or an employee of a company – the products you create are intellectual property of the university or company. Putting that info into Google notebooks or other Ais puts that intellectual property out there into the training data world.

- Kennedy Brinson: I am very interested in this too! @Rebecca Peterson
- Carrie Albright, NAAEE Staff: Thanks for the questions! We'll try to cover as many as we can with the presenters, so please keep sharing your questions and ideas.
- Michael Downs: Aren't those enviro govt websites being gutted?
- Erika Schielke: I also have questions/concerns about privacy (intellectual property, and personal identifying info/FERPA concerns when thinking about email drafting that would involve messages to/from colleagues and students)
- teddy-michel IRADUKUNDA: yes Goutier, interested to, nice
- Laura Blood: From what I understand, some AI use material from prompts in training and some do not.
- Mohamed Golden: @carrie thanks
- Anne Umali: Wow, Edwin, it really sounds like you!!
- Rebecca Peterson: Unless you have a "walled garden" with a data sharing agreement that prohibits data transmission out of the system, the major AI providers utilize your data for training.
- Victoria Rydberg-Nania: OMG, I love that idea! I hate having to edit my voice!
- Susanna Bruneau: Does that app work in other countries?
- Idah Murithi: What app did the coding?
- Anjulee Bhalla: Any security concerns from tools being able to clone a voice... I could take the recording of this talk to create Edwin's voice signature and make him say whatever I would like...
- Adelaide Young: I thought the focus of this webinar was about the ethics... Is any of this considering the pitfalls and long term negative effects on the human brain of GPT use that MIT has identified in their studies? Additionally, doesn't this stuff use a lot of water that is causing further concerns with the climate crisis?
- Imani Mehta: How do you know if the AI results are accurate?
- Rebecca Peterson: Yikes – data privacy!
- Jeanna Johnson: If it can record your voice and write script not directed by you, how do we determine authenticity that it is you?
- jd williams: platforms like Playlab and BoodleBox are great aid for no-code bots 🚀
- Idah Murithi: Thanks !
- jd williams: \*for creating (easy-peasy)
- Wendy Kedzierski: ugh
- Rachel Shaffer: Working in the zoo world brings new challenges–A lot of zoo and aquarium facilities are concerned about the environmental impacts regarding usage of AI and how using AI might come off as hypocritical. Some facilities tested using generative AI in social media posts and received a mass influx of negative response from staff and the public. Considering the affects the current usage of AI has on the environment, is it morally appropriate for environmental focused facilities to use any AI programming?
- Grace Nabuduwa: Thanks for the presentation on Generative AI

### Section 2: Jake Baskin

- Carrie Albright, NAAEE Staff: Go to: [ReimaginingCS.org/personas-for-reimagining-cs](https://reimaginingCS.org/personas-for-reimagining-cs)
- Chong Shimray: When should Gen AI be avoided? What are the limitations of Gen AI in teaching-learning?
- Adelaide Young: As teachers we know better than anyone the importance of building soft skills and fundamental thinking skills like data analysis, sympathizing with an audience, communicating, etc... How do you suggest we balance using these tools for convenience without removing the critical experiences students need to develop cognitively?

**Results of Group Exercise:** <https://reimaginingCS.org/personas-for-reimagining-cs>

- Kris Hunter: Communication, outreach, education, assignments, assessments
- Tara Poelzing: data analysis
- Kourtney Boone: Emotional intelligence
- Timothy Becker: How to edit a draft with AI. How to analyze data with AI. Brainstorming with AI.
- Mark Lantsberger: Serenity Jin – Needs an understanding of AI prompting. However, she really needs to understand how to identify bias in AI results if she uses it to create supports directly for students.
- Erika Schielke: Research
- Tabbi Kinion: Liam will need to consider whether he can explore and learn AI without giving a significant amount of his salary away. He will need to use AI to teach him how to use it to create his own business and services.
- Caroline Basic: people skills
- Rebecca Peterson: Critical thinking
- Rachel Holbert: Advertising & accounting
- Emily Newman: Being able to analyze data and browse cases
- Younghee Kim: Helping young learners be mindful, compassionate, loving, caring individuals
- Erika Schielke: Drafting/revising a written report
- Christina Emmett: Language translation
- Luz Antonio: critical thinking
- James Akenson: Marisol will need varied writing skills.
- Kris Hunter: Oh mine was for AVA
- Chelsea Holliday: listening skills
- Jerran Orwig: tech savvy, collaboration, creativity
- Angel Beteran: Creative thinking, engagement work, communication
- Ann Brown: Izabel: interpersonal relationships, caring/empathy, understanding the political process, data privacy, regulation of AI.> and how to share/communicate these understandings with underserved people
- Linda Keane: Collaborate with others in speculating on necessary skills
- Meghan Smart: Doing more with less
- Barry Grossman: Bishaka: AI effective prompting
- kurt thomas: Career Paths Skills
- Mphemelang Ketlhoilwe: problem solving, M
- Susanna Bruneau: Interpersonal skills, empathy, memory, motor coordination

- Billy Spitzer: Empathy, listening, critical thinking
- Ingrid Norris: Communications and relationship building.
- James Akenson: Marisol will broad cultural/historical knowledge.
- Luz Antonio: cultural literacy
- jd williams: A good reminder that we are human beings, not human doers.
- Susanna Bruneau: current events literacy
- Kennedy Brinson: Persona = Izabel, because she is concerned about data privacy it is an important skill is critical thinking, communication that is emotionally and culturally relevant
- Cynthia Spratley: Asst Grocery Manager: Computer orders, suppliers list prices and hiring practices and ways to keep up with food safety, personal safety, geospatial information, security, healthcare, all the regulations that are needed, critical thinking skills and skills for leadership and business development, advertising .
- Linda Keane: Informal learning into formal learning
- Jessica Nyaribo: Caroline Cohen – Legislative Aide: Skills needed, critical thinking, policy brief writing/ active listening.
- Stacy Cummings: Caroline / Legislative Aide – synthesis, speech writing, editing, stats on social media and young people, brain-based research on mental health in young people, and critical questioning
- Gordon Branston: systems thinking, mindfulness, critical thinking, human factors, psychology in the workplace, strategic thinking, environmental health and sustainability
- Judy Braus, NAAEE: We'd like to stay on a few extra minutes to answer your questions. I hope you can all stay on because we have some great questions. :-)
- Carrie Albright, NAAEE Staff: Here's the link! [csteachers.org/ai-priorities](https://csteachers.org/ai-priorities)
- Adelaide Young: Love these resources, thank you
- Carrie Albright, NAAEE Staff: Again, everyone will have access to the slides and the recording following the webinar. Thanks for being here today!
- Amanda Purnell: Thank you, NAAEE <3
- Judy Braus, NAAEE: Thank you all for your questions! We will get to as many as possible at the end and then figure out all the next steps. This is part I. :-)
- Kakha NADIRADZE: Brilliant presentation, Bravo
- Imani Mehta: Sometimes the data set itself has bias in the way it is selected. #cherry picking
- Mphemelang Ketlhoilwe: Brilliant insight, I love that presentation including its 3 minutes activity. MJ

### Section 3: Joan Haley

- Carrie Albright, NAAEE Staff: You can follow along with Joan's slides and access the resources she shares at [https://docs.google.com/presentation/d/1Xp\\_yQYzlwu7b1R2F7bews5OgicBRVj9nGqpJEQhA9Ew/edit?slide=id.p#slide=id.p](https://docs.google.com/presentation/d/1Xp_yQYzlwu7b1R2F7bews5OgicBRVj9nGqpJEQhA9Ew/edit?slide=id.p#slide=id.p)
- Ken Benton: I don't know, the more I learn about it, the more I fear AI...
- Liz Perotti: @Ken – I fear that it's a great mechanism to disseminate media that looks "real" that is aimed to misinform and inflame with a population that

largely lacks critical thinking and an inability to adjudicate information. I've also noticed that my kids can id ai created videos much quicker and more accurately than I can; a disparity when introduced to this technology early?

- Jake Baskin: YES! Teaching CS does not mean you have to always be using a computer. Unplugged CS lessons are an outstanding way to introduce concepts to all ages.
- Mark Lantsberger: Jake is right. Check out CS Unplugged:  
<https://www.csunplugged.org/en/>
- Judy Braus, NAAEE: What does it mean to be a good human!
- Kris Hunter: Teach young children responsibility for the planet includes nature and nurture being artificial intelligence
- Imani Mehta: Google says it is carbon neutral. Don't believe it!
- Imani Mehta: Look at the recent court cases regarding AI to help students understand what is at stake.
- Linda Keane: Childhood is a rare treasured time. Overwhelming young children is not a good route. opening awareness, builds appreciation, appreciation can lead to advocacy towards stewardship
- Imani Mehta: I start the discussion with using flow charts on how to make a peanut butter sandwich, caterpillar to butterfly, or how to tie your shoe.
- Imani Mehta: Project Stargate
- Anant Bhaskar Garg: Excellent Presentations, Thank you very much to Speakers and NAAEE
- Alexandra Paulino: Thank you Joan. This was very informative
- kurt thomas: Great presentations
- Amanda Purnell: Thank you for sharing these slides full of resources!! So much to learn – thank you for making it easier.
- Ken Benton: That really is a big part of what I'm worried about – that we are playing around with a technology that is more powerful than our social/emotional intelligence can handle.
- Wendy Kedzierski: Thanks Joan!
- jd williams: 🧡 Always read the fine print. The devil is in the det-AI-Is & don't share outputs publicly because it is no longer protected.

### Questions, Comments, and Closing Remarks

- Jake Baskin: I also want to call out the great questions in the chat – I see a theme of asking whether it is “ethical” to use AI, especially as environmental educators. From a personal and professional aspect I think it's a fair question, and lean towards yes as long as we're being thoughtful about it. Most importantly it makes it clear that we need to empower students with the agency to also develop their own personal ethics around this.
- Estrella Risinger: This has been an excellent webinar. Thanks to the speakers and NAAEE!
- Jake Baskin: We are working to normalize saying up front “I used AI for this” within the CSTA workplace
- Mark Lantsberger: Thanks to Joan, Jake, and Edwin. Grateful to Judy and NAAEE for bringing this session to us today. Thanks!!!



- Amanda Purnell: If we wanted to share an “AI 101” with someone fairly new to AI, do you have a recommendation of where to have them start? (e.g. an overview of tools, uses, and how AI works – like Edwin shared)
- Jake Baskin: @Amanda I actually think that anthropic made a very strong intro to AI online course that would be useful to all
- Imani Mehta: Make sure to not cite AI as a source. Find out where AI got the data. Always cite the primary sources!
- Jake Baskin: Yes – preparing people for the new types of scams that will be carried out with this technology is real
- Amanda Purnell: Awesome – thank you, Jake. I’ll check it out.
- Abdulkadir Bashir Yahaya: interesting sessions Thanks all
- Judy Braus, NAAEE: Thanks for all the great questions and for being here today! And thank you to our wonderful presenters and to Carrie!
- Carrie Albright, NAAEE Staff: So much to think about and continue learning about! Thank you Edwin, Jake, and Joan (and Judy!) for this incredible and informative session. Thanks to everyone who attended and shared questions and experiences!
- Amanda Purnell: Can’t wait for round 2!!
- Linda Keane: Most definitely! Learning about the Water/food/energy nexus connects with OXFAM, connects across every different biome and builds informed citizens.
- Stacey Jensen: Thank you!!!
- Ken Benton: Thank you all!
- Marie Hathaway: Thanks, everyone! Great insights and great questions
- Barry Grossman: So much to think about, thank you all very much!
- Jessica Nyaribo: Thank you!
- Alexandra Coombs: Thank you all
- Whitney Hale: Thank you!
- Yolanda Mitchell: Thank you
- Linda Keane: Thank yo so very much. May the conversation continue!@!
- Ven Silveira: Thank you!!