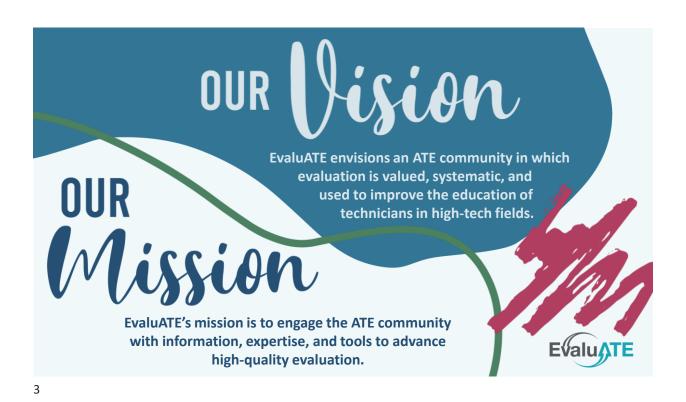
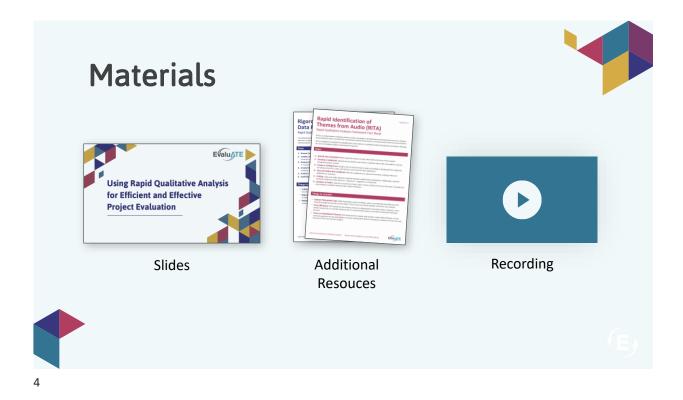




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Introductions



Samantha Hooker



BriannaHooks
Singletary



Lyssa Wilson Becho





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Behind the Scenes



Maureen Green



Kelly Robertson







Megan Lopez

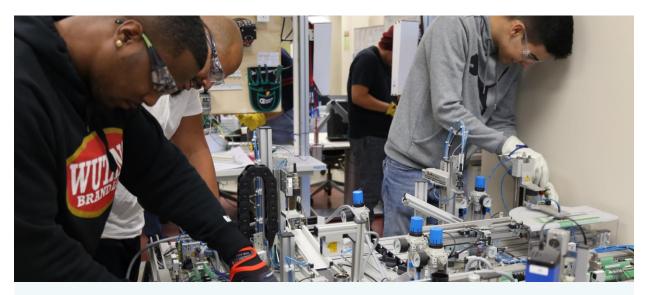


Erika Sturgis



Archer Fox Lee-Easton

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Advanced Technological Education Program www.nsf.gov/ate

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This material is based upon work supported by the National Science Foundation under Grants No. 1841783 and 2331243. The content reflects the views of the authors and not necessarily those of NSF.



Hello



Brianna Hooks Singletary

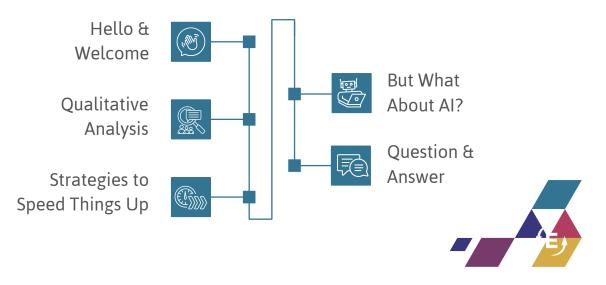


LyssaWilson
Becho



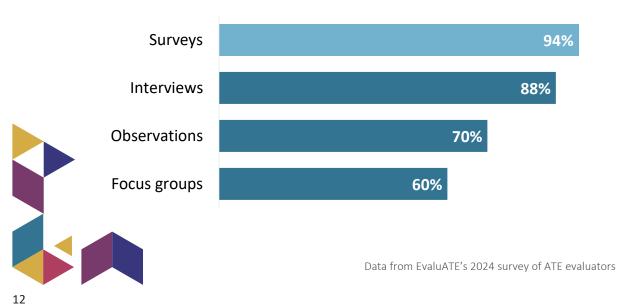
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Agenda



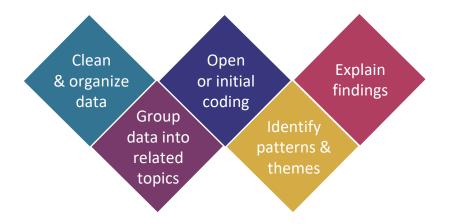


Many ATE evaluators use qualitative methods.



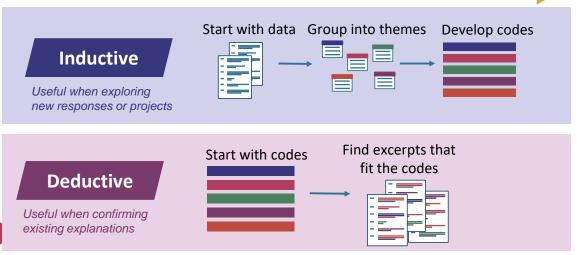






Approaches to Qualitative Analysis







Chat Question

What is the most challenging aspect of analyzing qualitative data in your experience?









a **systematic yet efficient** way to understand people's experiences and stories, using **structured methods** to **uncover meaningful patterns** while maintaining research quality.

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Time-Saving Strategies for RQA



Use Interview Summaries and Audio Clips Instead of Full Transcriptions



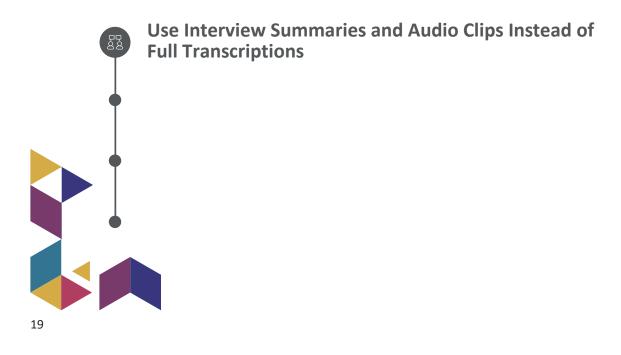
Implement Structured Frameworks for Streamlined Analysis



Create and Use a Data Reduction Table to Organize Key Insights

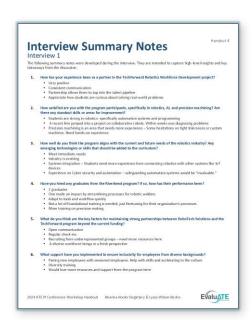


Apply Deductive Coding Techniques for Focused Data Interpretation







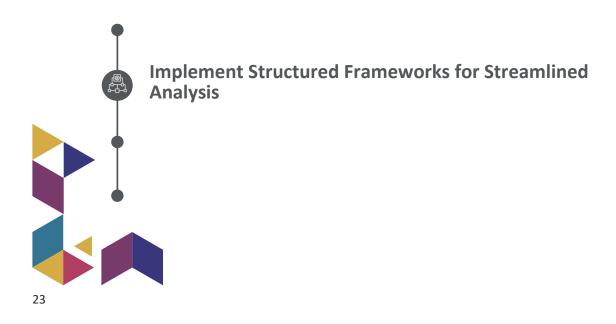




Interview Audio

a recording of a conversation between people, capturing the questions and answers for later use.





RQA Structured Frameworks and Approaches

help organize data consistently, streamline analysis, and maintain the quality and rigor needed to effectively identify key findings and insights.

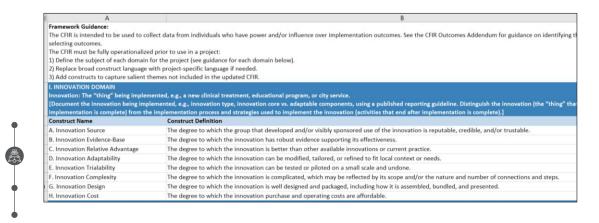








Consolidated Framework for Implementation Research (CFIR)



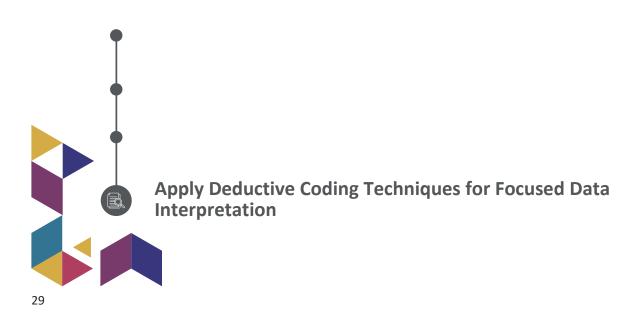


RQA Data Reduction Tables

tools used in qualitative data analysis to organize, condense, and summarize large amounts of data into manageable, meaningful segments.







Deductive Approaches in Rapid Qualitative Analysis

A top-down approach where you apply a predefined set of codes based on existing theories, frameworks, or hypotheses.

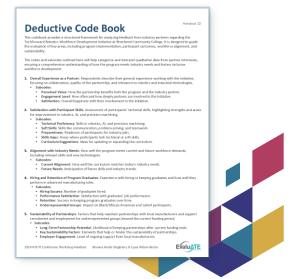


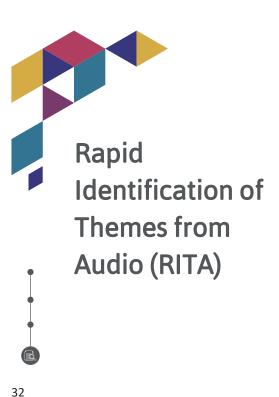


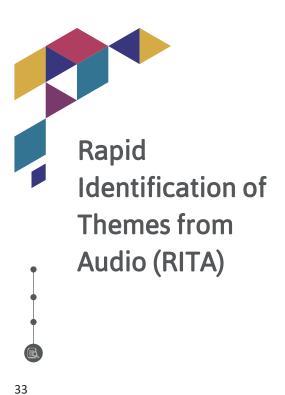
Deductive Approaches in Rapid Qualitative

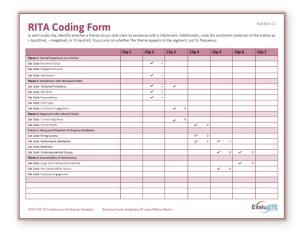
Analysis

A top-down approach where you apply a predefined set of codes based on existing theories, frameworks, or hypotheses.









Hamilton RQA Method





As an evaluator using **rapid qualitative approaches**, which specific approach might you choose to streamline and expedite your data analysis process?

- A Creating data reduction tables to organize and condense key themes and insights across interviews.
- B Conducting in-depth, line-by-line coding of full interview transcripts.
- Performing a comprehensive literature review before beginning data analysis.

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As an evaluator using **rapid qualitative approaches**, which specific approach might you choose to streamline and expedite your data analysis process?

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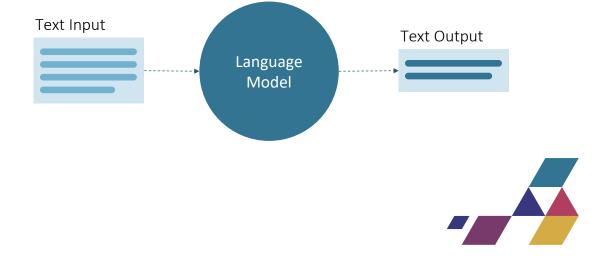
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Large Language Models



Considerations When Using Al





Use AI as your assistant.

It cannot replace you.



AI lacks context.

It only has the data you give it.



Al needs supervision.

It hallucinates.



Considerations When Using Al





Al isn't good at "why" questions.

Its good at spotting patterns, not understanding motivations.



AI is biased.

It exacerbates human error that is already there.



Not all AI data security is made equal.

Using AI to Support RQA

AI-Assisted Note Taking

AI-Assisted Transcription

Al-Assisted Data Organization

AI-Assisted Coding

AI-Assisted Exploration of Transcripts



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Using AI to Support RQA AI-Assisted Note Taking













Using AI to Support RQA AI-Assisted Transcription

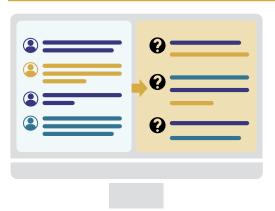




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Using AI to Support RQA

AI-Assisted Data Organization



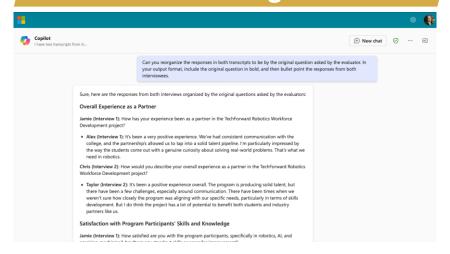






Using AI to Support RQA

AI-Assisted Data Organization

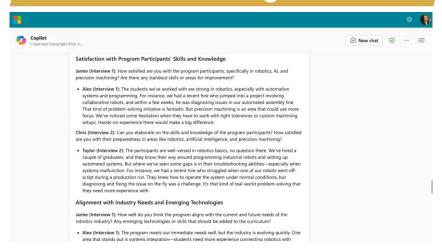




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Using AI to Support RQA

AI-Assisted Data Organization





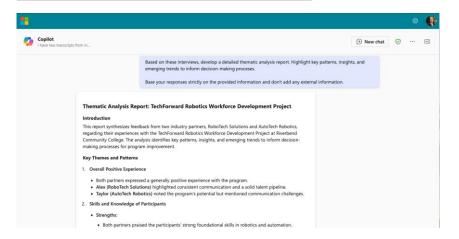






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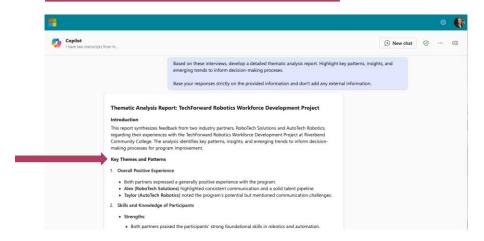
Using AI to Support RQA AI-Assisted Coding





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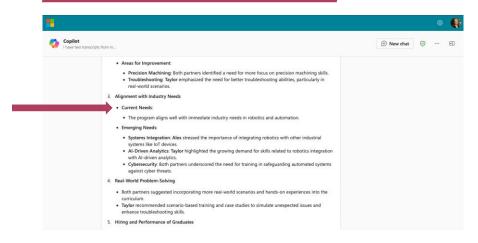
Using AI to Support RQA AI-Assisted Coding





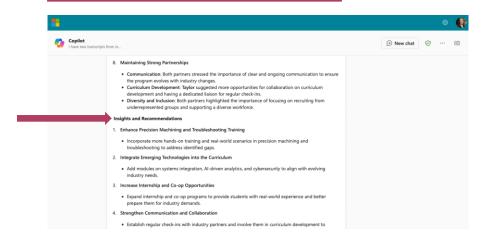
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Using AI to Support RQA AI-Assisted Coding





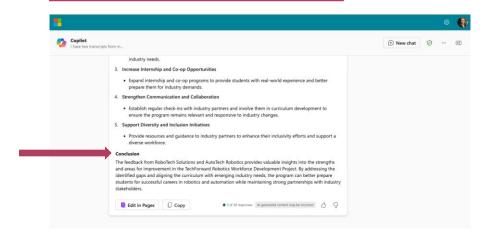
Using AI to Support RQA AI-Assisted Coding





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Using AI to Support RQA AI-Assisted Coding





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Using AI to Support RQA

AI-Assisted Exploration of Transcripts





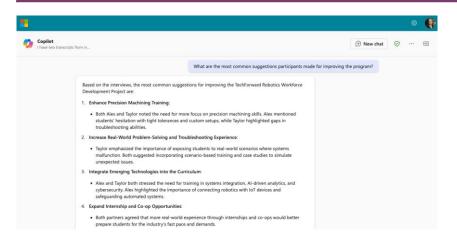




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Using AI to Support RQA

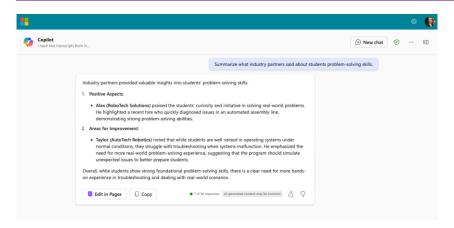
AI-Assisted Exploration of Transcripts





Using AI to Support RQA

AI-Assisted Exploration of Transcripts





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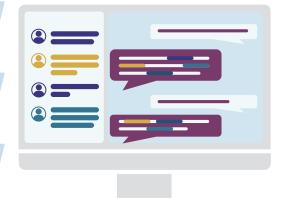
Poll Question

What do you think about using Al-assisted technology to support your qualitative analysis?

A Excited and ready!

B Hesitant, but want to learn more

C I'll stick with humans!



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Key Takeaways & Closing



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Key Takeaways



Qualitative analysis can add depth and meaning to your evaluation findings.





RQA enables quick, in-depth analysis to meet project needs.



Al can be an effective assistant but will never replace you in qualitative analysis.







Feedback Survey

