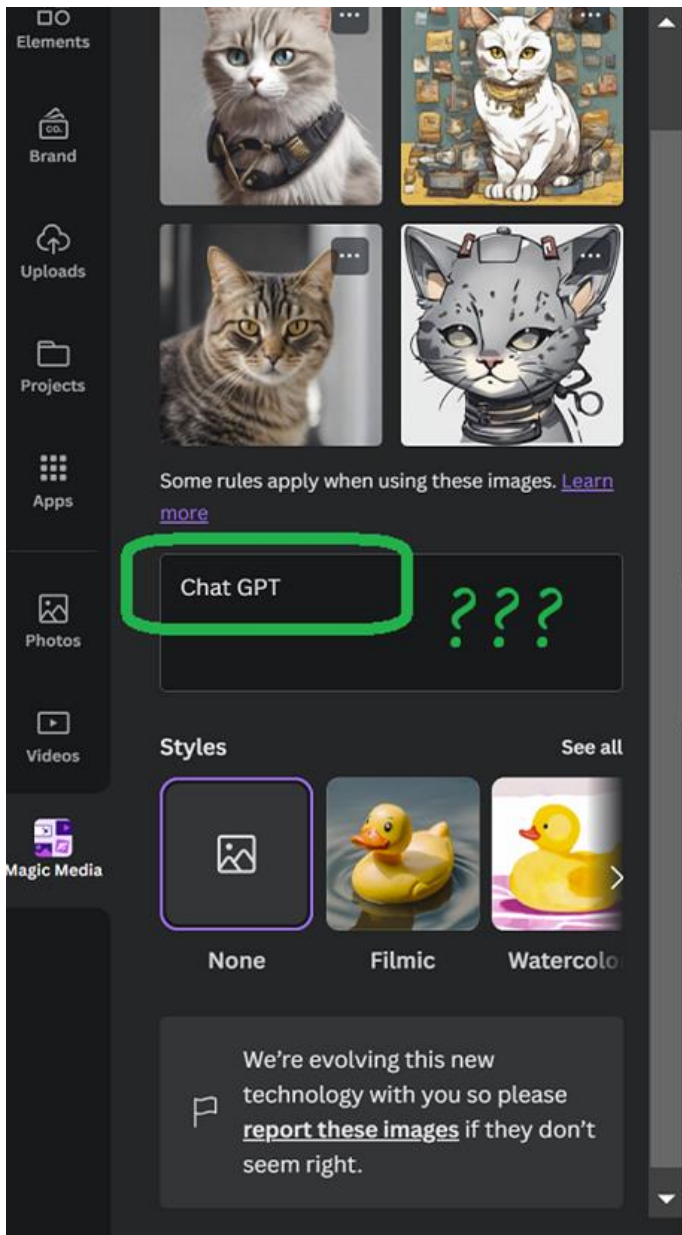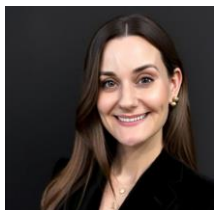# Chat GPT & Gen AI Tools to Support English Learners

Aniko N. Fields fieldsan@laccd.edu
Sarah D. Schmitz sdschmit@uh.edu
Emese Felvégi efelvegi@uh.edu

Speaker Background and Topic Overview

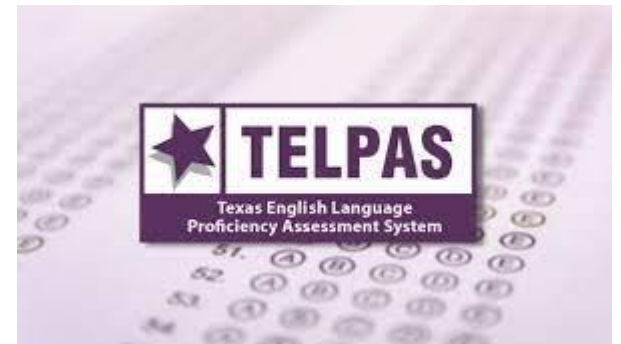| Sarah Schmitz	Aniko N. Fields	Emese Felvégi
Instructional Designer C.T. Bauer College of Business	Faculty Los Angeles City College	Dir. of Digital Learning C.T. Bauer College of Business
K-12 & ELLs	College English & ELLs	Business English & ELLs

Project Goal

Observe policies for ELL support, collect uses of AI tools for:

+ English language skill development,

+ Critical thinking skill development,

+ Information & disciplinary literacy development.

with a focus on non-native English speakers/English learners.

K-12 & ELLs in the State of Texas

- Texas Education Agency (TEA) policies and standards
- Texas English Language Proficiency Assessment System (TELPAS)
- Language Proficiency Assessment Committees (LPACs)
- Variety of ELL adaptive instructional strategies (SI) and teacher training supported
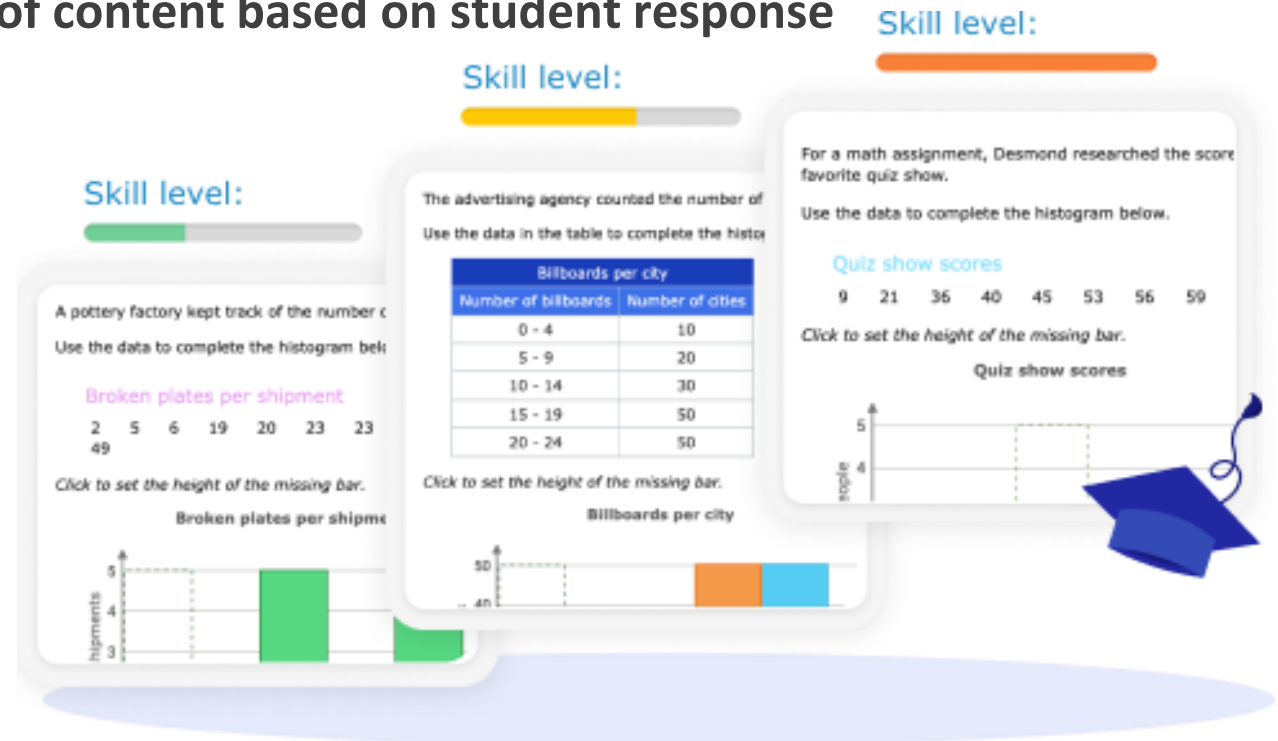
ELL support abruptly stops after high school graduation.

How is AI used in K-12 Education?

- **Adaptive Learning Platforms for <u>Content Mastery</u>**
  - **IXL, DreamBox, Carnegie Math, Knewton Alta, Vocabulary.com, and many more!**
  - **AI algorithms adjust difficulty level of content based on student response**
  - **HB 4545 Compliance**

- Automated Grading & Feedback
  - TurnItIn, GradeScope, EssayTagger
- Homework Assistance and Tutoring
  - Photomath, Symbolab
- Content creation for teachers!
- Accessibility & Inclusion
  - Google Speech-to-Text API
  - text-to-speech conversion: Speechify

The Need for ELL Support in Higher Ed

- Nationwide: low levels of reading and writing skills within high school graduates

- California: AB 705 & AB 1705 - community college students are directly placed in credit/transfer level classes regardless of language learning status
- Only a few remedial classes remain
- Completion rate for ELLs in ESL classes (2 below transfer level) in 2016-2017: 9%, in 2021-2022: 16%
- Overall completion rates rose from 52% to 66% from 2016-2017 to 2021-2022 (even with the effects of COVID-19)
- Support for ELLs provided in the form of 'writing labs' and tutoring

Avenues for ELL Support with AI in College English Courses

- ChatGPT: available since end of 2022, 3.5 for free, 4.0 currently $20 monthly
- AI checkers available within a couple of months but unreliable and biased against ELLs
- Biggest worry: academic dishonesty - those who want to cheat will find a way
- ELLs can benefit from generative AI:
  - grammar corrections
  - vocabulary enhancement
  - sentence structure guidance
  - pre-writing brainstorming
  - real-world writing simulations
  - instant translation support - both to native language and English to English (simplified - Spenser's The Faerie Queene!)

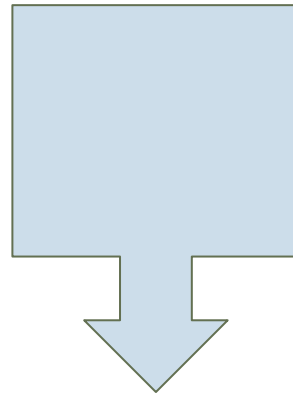# Avenues for AI Inclusion and ELL Support in a Core Business Apps Course

AI in the Workplace

60% of U.S. adults are familiar with Chat GPT (PEW)

10-20% of adults use Chat GPT @ work (Statista/PEW)

5% input confidential/sensitive information (Statista)

+ NACE Career-readiness standards
+ Disciplinary literary
+ Communication skill development
+ Ethics, legal compliance

Opportunities for Education

Canva AI generated image for a "digital divide" prompt.

AI Use Ideas & Samples for a BCIS Course Integrated COIL Project

AI in Action for COIL Support

Known COIL barriers:

➔ Time Zones
➔ Language
➔ Experiences
➔ Context
➔ Technology

Tools Used & Public Outputs:

➔ Chat GPT (Free & Paid)
➔ Bard (Free)
➔ Slidespeak ($15)
➔ Canva AI Illustrations ($15)

➔ Teach writing, editing, fine-tuning prompts

➔ Writing samples for style, genre, tone

➔ Models for length, complexity, format

➔ Summarize core readings about a topic

➔ Check validity of content, structure, language

➔ Evaluate resources, references used

Describe barriers to closing the digital divide around the world

Monthly subscription fees and the initial cost of purchasing devices can be prohibitive.

- Reference: Anderson, M., & Kumar, M. (2019). Digital Divide Persists Even

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- 0 EN - Canva - Handbook Cover
- 0 HU - Canva - Handbook Cover
- 1 EN - Chat GPT 35 - Digital Divide - Key Terms
- 1 EN - Gemini - Digital Divide - Key Terms
- 1 HU - ChatGPT 35 - Digitalis Szakadek - Szokincs
- 1 HU - Gemini - Digitalis Szakadek - Szokincs
- 2 EN - Chat GPT 35 - Digital Divide - Middle School Textbook Chapter - 2-11-2024
- 2 EN - Gemini - Digital Divide - HS Textbook Chapter
- 2 EN - Gemini - Digital Divide - Middle School Textbook Chapter - 2-11-2024
- 2 HU - Gemini - Digitalis szakadek - HS Tankonyvi fejezet
- 3 EN - Actual Economist Article - VISA Sponsored
- 3 EN - Chat GPT 35 - Digital Divide - Economist Style Article
- 3 EN - Gemini - Digital Divide - Economist Style - Slidespeak Slides v1
- 3 EN - Gemini - Digital Divide - Economist Style - Slidespeak Slides v2
- 3 EN - Gemini - Digital Divide - Economist Style - Slidespeak Slides v3
- 3 EN - Gemini - Digital Divide - Economist Style - Slidespeak Slides v4
- 3 EN - Gemini - Digital Divide - Economist Style Article - Draft 1
- 3 EN - Gemini - Digital Divide - Economist Style Article - Draft 2
- 3 EN - Gemini - Digital Divide - Economist Style Article - Draft 3
- 3 HU - Gemini - Digitalis szakadek - HVG cikk
- 4 EN - Gemini - Strategy - Concept Map
- 4 HU - Gemini - Strategia - Elmeterkep
- 5A EN - Chat GPT 35 - Digital Divide - Taylor Swift Song - 2-11-2024
- 5B EN - Gemini - Digital Divide - Song Lyrics
- 5B EN - Gemini - Digital Divide - Taylor Swift Song - 2-3-2024
- 5B HU - Gemini - Digitalis szakadek - Magyar dalszovegek

- 5X - Chat GPT 35 - Digital Divide - Fortnite Style Video Game - 2-11-2024
- 5X - Gemini - Digital Divide - Fortnite Style Video Game 2-11-2024
- 5X - Gemini - Digital Divide - TV Shows
- 5X - Gemini - Digital Divide - Video Games
- 6 EN - Chat GPT 4 - Divide North America - DL from Hungary 2-2-2024
- 6 EN - Chat GPT 4 - Updated Prompts for Asia from Hungary
- 6 EN - Chat GPT 35 - Divide North America - 2-11-2024 - Annotated
- 6 EN - Chat GPT 35 - Divide North America - 2-11-2024
- 6 EN - Gemini - Divide North America - 2-11-2024 - Draft 1
- 6 EN - Gemini - Divide North America - 2-11-2024 - Draft 2
- 6 EN - Gemini - Divide North America - 2-11-2024 - Draft 3
- Bard-Digital-Divide-2-4-2024
- Illustration - For Gemini - Taylor Prompt
- Illustration Canva AI - Digital Divide
- Paywall Issues - Gemini - Cant Reference Itself
- Readability_Gemini_Divide_Textbook_A
- Readability_Gemini_Divide_Textbook_B
- Readability_Gemini_Divide_Textbook_C
- Real Article - WSJ - 11-16-2023
- Reference - Gemini - Divide_Notice_A
- Reference - Gemini - Divide_Notice_B
- Reference - Gemini - Divide_Notice_C
- SlideSpeak - Gemini Text Turned Slide
- Supplement - Chat GPT 4 - Prompt Set 1 from Hungary
- Supplement - Gemini - Digitalis Divide - Economist Article - Dumb It Down Dot AI Version

Recommendations

Proceed with caution! :]

Explore integration options based on:
- ➜ Your experiences w AI
- ➜ Student experiences w AI
- ➜ Local community of practice AI use
- ➜ Research & practicum use
- ➜ Publisher tools
- ➜ Workforce integrations

Evaluate and discuss tools with your students to grow with your experiences and understand their limitations.

Questions, Comments?

References

Yee, K.; Whittington, K.; Doggette, E.; and Uttich, L., "ChatGPT Assignments to Use in Your Classroom Today" (2023). *UCF Created OER Works*. 8. https://stars.library.ucf.edu/oer/8

Liang, W., Mert Yuksekgonul, Mao, Y., Wu, E., & Zou, J. (2023). *GPT detectors are biased against non-native English writers*. 100779–100779. https://doi.org/10.1016/j.patter.2023.100779

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https://www.cccco.edu/About-Us/Chancellors-Office/Divisions/Educational-Services-and-Support/transfer-level-dashboard