Literacies in Bilingual Teacher Education Veronica Paredes & Jessica Velez Tello

City University of New York, The Graduate Center

IATE OF NEW YORK

Exploring Language Ideologies: Integrating Digital and Computational

Introductions

Veronica Paredes is a PhD student in the Urban Education program at the City University of New York, interested in immigrant origin teachers' epistemologies and how these translate into pedagogical moves to support student-teacher relationships amidst anti-immigrant sentiments. She is currently a teacher educator at Brooklyn College.

Dr. Jessica Velez Tello is a teacher educator and educational researcher at the City University of New York. Jessica's research and pedagogy focuses on teachers and teacher candidates' curriculum design at the intersection of language justice, immigration, and culturally sustaining literacy in relation to digital and computational practices in teacher education.



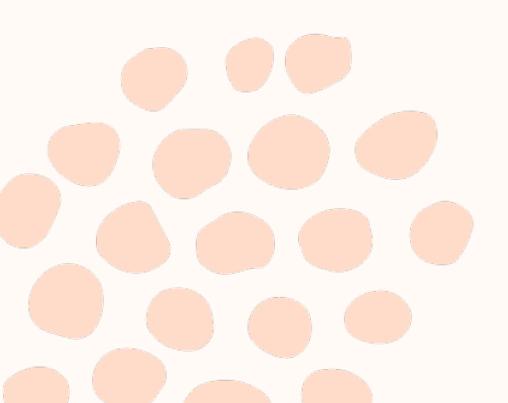


Veronica Paredes, PhD student, Urban Education, CUNY-Grad Center



Jessica Velez Tello, Office of Academic Affairs, Teacher Education Programs,

Introduction





This work focuses on...

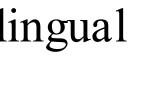
for linguistically diverse learners

- **Collaboration** can guide curriculum design that prepares teachers
- Create intentional opportunities or exploration and reflection

Goals:

- 1. to build up knowledge and application of critical bilingual education frameworks
- 2. to encourage students' understanding of computational and digital literacies in relation to their pedagogical practice.

- **Curriculum design** lays a crucial role in creating inclusive and meaningful learning environments



Context and Content

Computing Integrated Teacher Education Initiative (CITE)



Setting:foundations course in a Bilingual Graduate Program **Participants** teachers, teacher candidates (preservice teachers) and counselors

computational and digital literacies

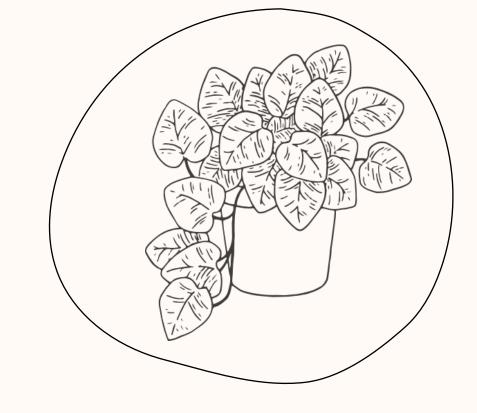
- The course is part of the CUNY CITE initiative, which aims to integrate **computational and digital literacies**
 - (CDLs) into how teacher candidates and teachers are
 - prepared across teacher education programs.
 - Learn and teach with, about through and against technology (CITE's framework)
- **Goal:**Weave content knowledge (bilingual education) with

CITE's Framework

For teacher learning	ABOUT Teachers engage in conversations about technology, digital citizenship, and its impacts (from a user and teacher perspective).	WITH Teachers learn with technology to help them explore concepts for themselves.	THROUGH Teachers express themselves and their learning through their creation and modification of computational artifacts	AGAINST Teachers to think critically about technologies to dismantle unjust tech.
To integrate into teachers' pedagogy	Teachers strategically bring these conversations to their students.	Teachers teach with technology to support student learning and participation.	Teachers prompt their students to express themselves through creation and modification of computational artifacts.	Teachers strategically bring these conversations to their students.

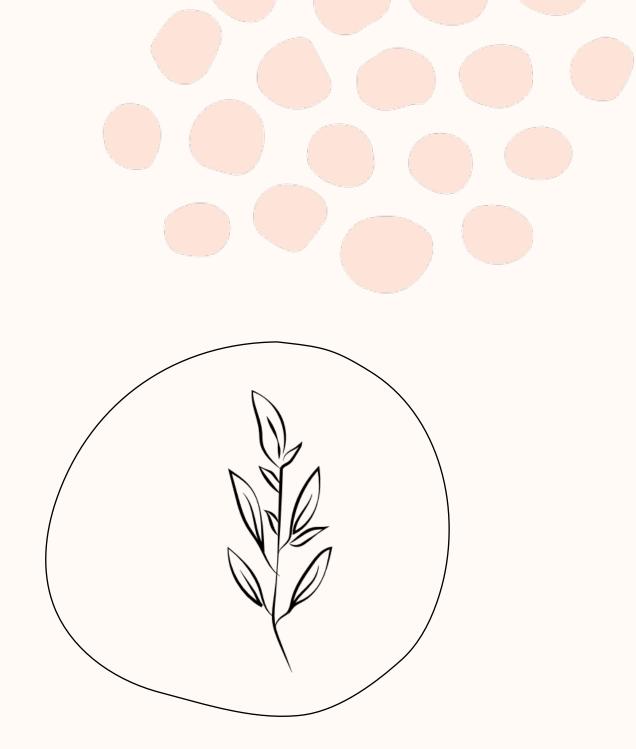
Key Points





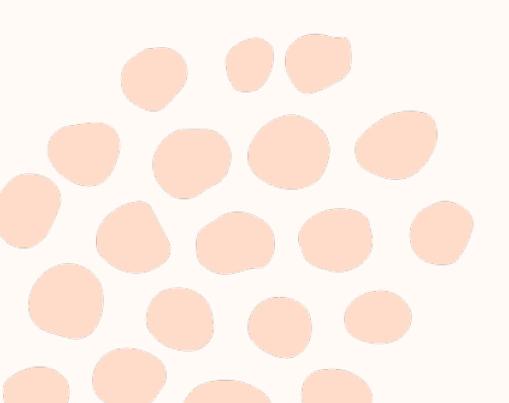
Course Design

Collaboration



Opportunities for exploration & reflection

Process





Course Design & Collaboration

Collaboration as a Key Methodology:

- •Makes pedagogical stances visible.
- Creates opportunities for multiple perspectives for better understanding
- Collaborative knowledge production-counters individualized design epistemologies. (Elenes, 2013; Morales et. al, 2024)



Course Design & Collaboration

Collaborative Course Design

Co-design practices:

- Vetting resources
- Exchanging ideas to develop and refine course activities
- Addressing ongoing challenges in real-time to make course adjustments.
- Centering our pedagogical expertise
- Leveraging our lived experiences and bilingual backgrounds

"Students lacked structured opportunities to explore their beliefs ar perceptions regarding language and language education

Timeframe

Summer 2023 Professional Development (CUNY- CITE)	 Attended PDs literacies. Created course education and
August 2023 — December 2023 Weekly Co-Designing Sessions (Fall 2023 course)	 Reflected on st Planned future course materia
February 2024 — ongoing Weekly Co-Designing Sessions (Spring 2024 course and research dissemination)	 Modified cours course. Facilitated sen dissemination.

Over the span of a year and ongoing

s on computation and digital rse artifact intertwining bilingual d digital literacies. student engagement. re sessions and modified rials.

se materials for another

nsemaking for research

Assignments and Activities

Key Assignments in this course

Name	Description		
Bilingual Education Timeline	In groups, students research specific e policy and major historical events that o in the U.S. is today.		
Paper Engineering Po ups	Students engage in computational litera Students use paper engineering to crea In their iteration, students add external views) pertaining to language.		
Multimedia Portfolio	This final assignment asks students to pedagogical practices. The work is created multimedia component to this assignment to the statement of		
Journals	Ongoing throughout the semester		

eras (1920s, 1940s, 1960s, etc.) and n contributed to the way Bilingual Educa

racies through this unplugged activity. ate a prototype and an iteration **ofpa** p I (social perceptions)/internal (persona

use course content and incorporate it ated and presented in different ways, ent.

Assignments

Bilingual Timelin

States passed several acts that prohibited all languages but English to be taught and used in school. But William Torey Harris, U.S. Commissioner of Education, fought nativism and advocated for bilingual education saying that nuch of the culture, customs, habits and traditions would be lost and would weaken a personality. The bilingual education of that time was for the immigrants of

Anonymous

American Protective

Association (APA)1887

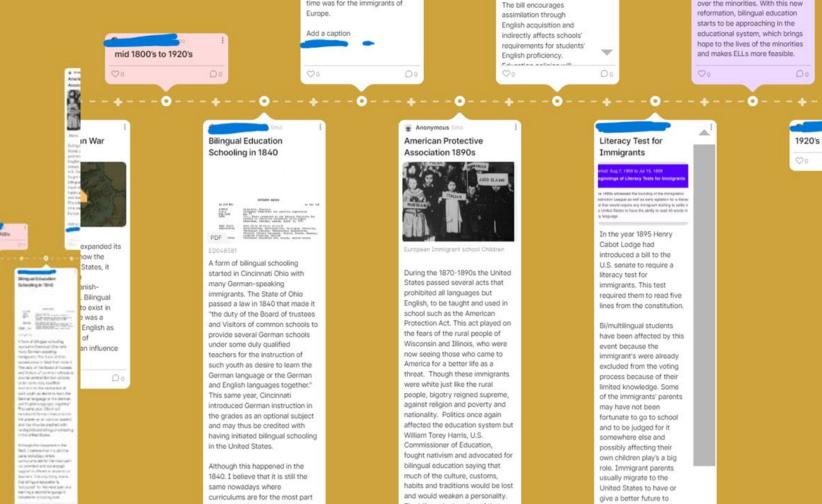




During the 1870-1890s the United States passed several acts that prohibited all languages but English, to be taught and used in school such as the American Protection Act. This act played on the fears of the rural people of Wisconsin and Illinois, who were now seeing those who came to America for a better life as a threat. Though these immigrants were white just like the rural people, bigotry reigned supreme against religion and poverty and nationality. Politics once again affected the education system but William Torey Harris, U.S. Commissioner of Education, fought nativism and advocated for bilingual education saying that much of the culture, customs, habits and traditions would be lost and would weaken a personality. The bilingual education of that time was for the immigrants of Europe. Racial bigotry at the time was directed at the poor who came from Europe.



heir children or loved ones. Which then affected students who are being placed in either all English- only classrooms vithout accommodations How is this successful for them? Some immigrants are even placed in 1st grade classrooms



not provided and not enough support is offered to students or teachers. The only thing now is that bilingual education is accepted" for the most part and learning a second language is included in schooling now.









Naturalization Act

The Naturalization Act

passed on June 29, 1906.

had a significant impact on the immigration and

naturalization process in

Although the bill did not

directly mention bilingual

crucial role in shaping the

country's language and

education policies.

The act regulates the

requires applicants to

demonstrate English

increased demand for

immigrants, indirectly

United States.

The bill encourages

assimilation through

English proficiency.

English acquisition and

indirectly affects schools'

requirements for students'

English teaching among

affecting the pattern of

language education in the

naturalization process and

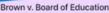
proficiency. This has led to

education, it played a

the United States.

Passed (1906)

Literacy Test for Immigrants





In 1954, the Supreme Court ruled that schools must be desegregated. Indeed, the laws were changing, people's attitudes were still remained unchanged. Although people's attitudes were not changed after the Supreme Court announced that the educational policy was unconstitutional, it was much better compared to the first Plessy vs Ferguson. During this period of time, African Americans were not allowed to eat in the same restaurant, go to the same school and live in the neighborhood as the Whites. That is why Brown v. Board of Education is replaced with it and plays an important role to challenge "segregation" as a first movement and focuses on the idea of "togetherness" by uniting all the people, instead of dividing them up based on the color of their skin. It provides "equal educational opportunities" for all students since without this, we will still be facing with "two different worlds", where the Whites will have the privileges over the minorities. With this new reformation, bilingual education starts to be approaching in the educational system, which brings hope to the lives of the minorities and makes ELLs more feasible.

Padletwas used for this activity



Assignments and Activities

Paper Engineering Pop - Ups

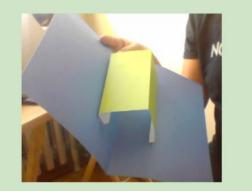
Tinkering: Prototype tutorial videos (sequence 2)

Why are we tinkering with pop-ups?

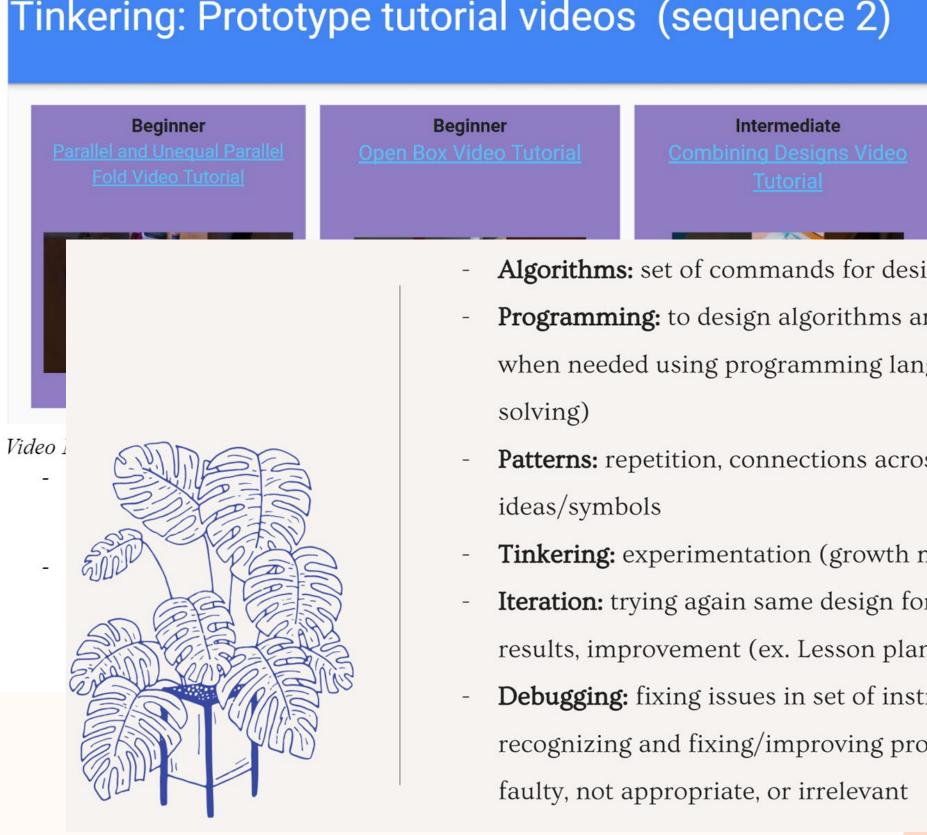
To visually represent our... Language ideologies **Theoretical Perspectives Concepts or Paradigms** from our readings

Tinkering: Prototype tutorial videos (sequence 1)

Beginner Click here for a video tutorial of The Tent Pop-Up







Course Desig

- Algorithms: set of commands for design
- Programming: to design algorithms and debug them when needed using programming languages (problem
- Patterns: repetition, connections across different
- **Tinkering:** experimentation (growth mindset)
- Iteration: trying again same design for different results, improvement (ex. Lesson plans)
- **Debugging:** fixing issues in set of instructions and/or recognizing and fixing/improving programming that is

Assignments and Activit

Paper Engineering Pop - Ups

Prepping for design and content

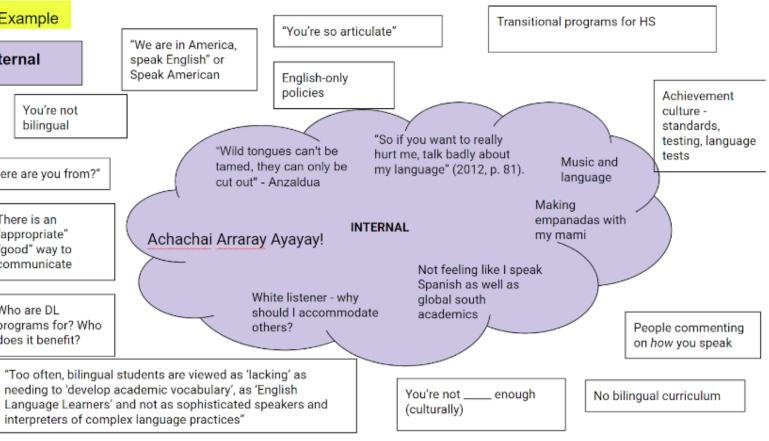
External You're not bilingual "Where are you from?" There is an "appropriate" "good" way to communicate Who are DL programs for? Who does it benefit?

Our Example

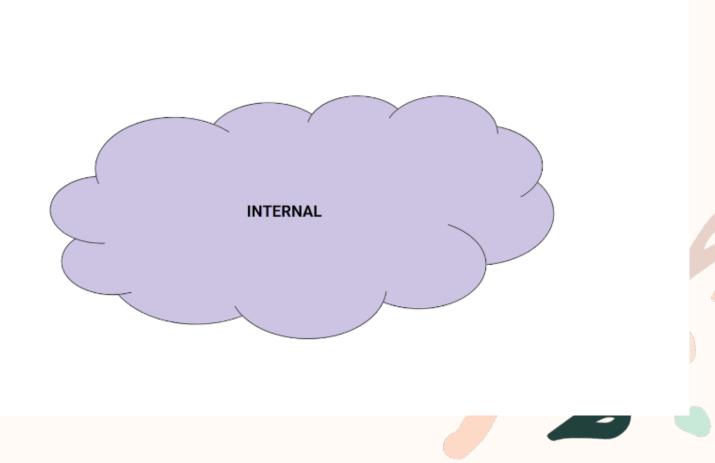
NAME(S):

External

Our example below:



Template for student use below



Assignments and Activities

Paper Engineering Pdps



Student Introduction

Assignments and Activities

Paper Engineering Pdps







Addressing Challenges

Initial Difficulties

- Uncertainty about students' comfort levels and prior knowledge.
- Hesitations towards computational terminology for non-CS backgrounds.

Strategic Approach

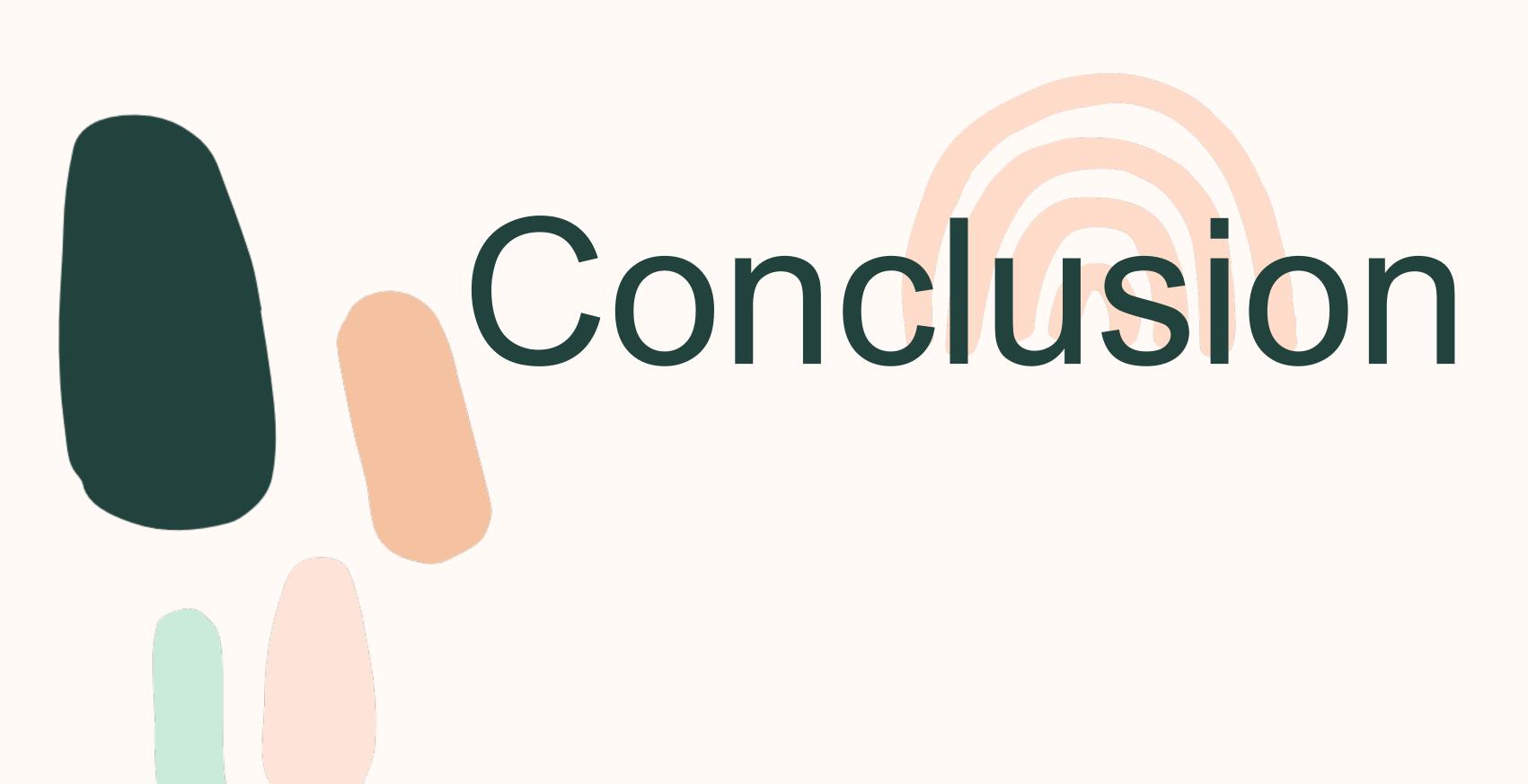
- Introduced key computational
 - terms (experimentation,
 - debugging, iteration) in familiar
 - pedagogical contexts.
- Compared computational terms to teachers' daily instructional design processes.

Addressing Challenges

Enhancing Understanding and Bridging Gaps

- Introduced discriminatory social design and social algorithms (Benjamin, 2019) to broaden students' perspectives on social inequalities and design processes.
 Enhanced comprehension of language ideologies and
- Enhanced comprehension of language equitable pedagogical design
- Created a graphic organizer to elicit language ideologies.
- Encouraged students to work in pairs, sharing ideas on internal and external language beliefs.
- nguage ideologies. sharing ideas on





Final Thoughts

- •Our course design integrated content knowledge with computational and digital literacies through a critical lens (e.g. translanguaging, raciolinguistic ideologies)
- The course granted students opportunities to explore and consider the role language ideologies play in curriculum design choices
- Our collaborative methodology pinpointed real-time scaffolding needs for activities and assignments to support students' engagement with digital and computational literacies.



Why does this matter?





Teacher Education

spaces for exploration

design

CNVFILLM FF



CANVA STORIES

23

Teacher education programs as

- Our collaboration supported
 - exploration of new content
 - reflection of personal ideologies and
 - the relationship with curriculum

Full paper with references

Also in the Conference's **Digital Library**





VeronicaParedes

vparedes@gradcenterny.edu

Jessica/elezTello

jessicavelez@cumedu

Keep in touch





