

# Supporting Inclusive Practices at EPCS through Universal Design for Learning and Inclusion (UDLI)

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# Eliot-Pearson Children's School at Tufts

## Introduction



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Universal Design for Learning (UDL) is an evidence-based framework for teaching & learning that guides educators in meeting diverse needs of students. All individuals, regardless of ability status, experience improved accessibility & opportunities for participation & performance in contexts where UDL is applied

Inclusive programming respects & honors the diversity of learners, their identities, & experiences to actively include, engage, & appropriately challenge all students<sup>2,3</sup>

Universal Design for Learning & Inclusion (UDLI) extends the framework of UDL to include specific principles & practices for cultivating inclusion

Translating research Lack of shared Gaps in UDL to well-resourced, definitions of Implementation evidence-based UDL principles 5 practices

Perceptions of program policies related to quality, personnel resources, funding, transportation, etc. 6

needs of typicallydeveloping children & children with special rights <sup>6</sup>

Concerns about meeting

Eliot-Pearson Children's School (EPCS) at Tufts University (Medford, MA): early childhood education program for children ages 2.9 - 7 years old<sup>4</sup>

Participants: Head Teachers (HT), Assistant Teachers (AT), & Eliot-Pearson (EP) Fellows across 4 classrooms

## Purpose, Aims, & Methods

**Purpose:** Develop and deliver a training & supplementary materials based on current knowledge & implementation of UDLI amongst a specific sample of EPCS teachers, ultimately supporting deeper understanding of UDLI & more inclusive learning environments

#### Aims:

- Assess knowledge & implementation of UDLI at ECPS
- Develop & deliver Teacher Training & supplementary materials 2 to promote deeper understanding of UDLI & facilitate implementation in EPCS classrooms
- Evaluate teacher learning & satisfaction with UDLI materials

## **Methods:**

## Consultation & collaboration with EPCS

Baseline Survey: Evaluate UDLI knowledge, practices, & gaps (Jan. 2024)

**UDLI Materials:** Development & delivery of teacher training & supplementary resources (Feb. & Mar. 2024)

**Needs Assessment:** Observations, classroom participation, discussion meetings, & informal conversations (Jan. & Feb. 2024)

Final Survey: Evaluate learning & satisfaction (Apr. 2024)

## Results

January 2024: Baseline survey (16 participants: 4 HT, 3 AT, 9 EP Fellows)

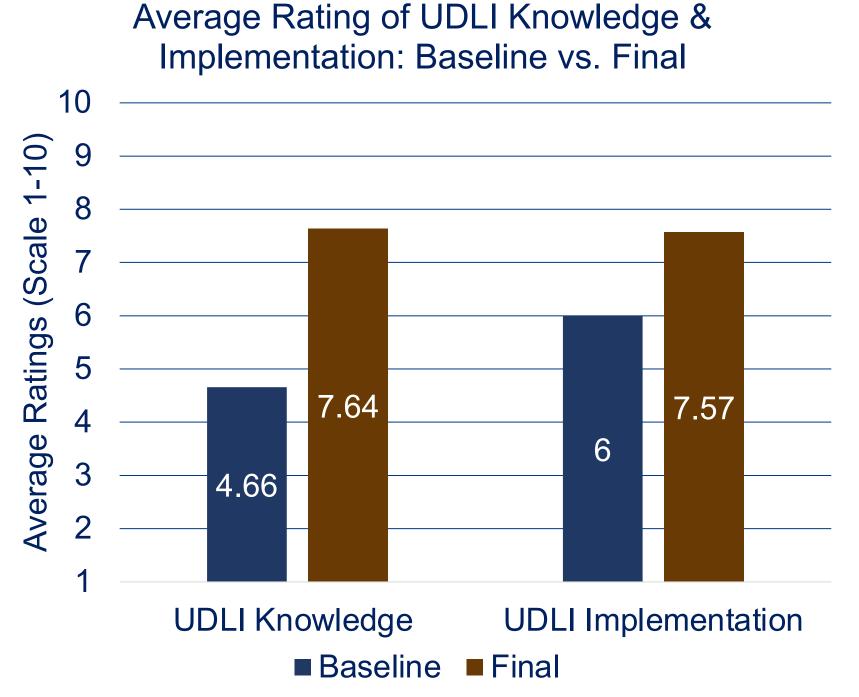
- Open-ended responses identified perceived gaps in knowledge & application of UDLI principles (Engagement, Representation, Action and Expression, & Inclusion)
- Perceived barriers to implementing UDLI principles & practices in EPCS classrooms:
  - 1. Different levels of understanding & experience with UDLI 2. Lack of concrete knowledge
  - 3. Time to intentionally plan UDLI in classrooms / curricula 4. Available resources
  - 5. Supporting children in understanding differing peer needs 6. Changing classroom dynamics
- Average baseline ratings of knowledge & implementation (see figure)

March 2024: Delivery of UDLI Teacher Training & Supplementary Materials to EPCS

Deliverables	Key Features
Universal Design for Learning & Inclusion (UDLI) Teacher Training	<ul> <li>75-minute Training Session</li> <li>Overview of UDLI definitions &amp; examples</li> <li>Images of current classroom examples</li> <li>Embedded choice for workshop activities</li> <li>Discussion opportunity</li> </ul>
UDLI Fact Sheets	<ul> <li>Overview of UDLI</li> <li>Multiple Means of Engagement</li> <li>Multiple Means of Representation</li> <li>Multiple Means of Action &amp; Expression</li> <li>Inclusion Principles</li> <li>UDLI &amp; Transitions</li> <li>'Grown-ups' Resource &amp; Recorded Information Session (for parents &amp;/or guardians)</li> </ul>
Supplementary Materials for Continued Education	<ul> <li>UDLI Toolkit<sup>7</sup></li> <li>Supplementary resources (e.g., videos, teacher supports)</li> </ul>

April 2024: Final, follow-up survey (14 participants: 4 HT, 3 AT, & 7 EP Fellows)

- Open-ended responses accurately identified of current classroom examples of UDLI
- Participants **re-rated knowledge** of UDLI on a scale of 1-10 (1 = none; 10 = knowledgeable)
- Participants re-rated implementation of UDLI in classrooms on a scale of 1-10 (1 = uncomfortable / not confident; 10 = comfortable / confident)
  - Figure: results of unpaired t-test analysis and effect size calculations between average ratings for knowledge & implementation at baseline & final



**UDLI Knowledge:** Statistically significant increase\* from baseline (M = 4.66, SD = 2.21) after the training & supplementary materials (M = 7.64, SD = 1.15),t(28) = 4.54, p < 0.0001.Large effect size (d = 1.69).

**UDLI Implementation:** Statistically significant increase\* from baseline (M = 6.00, SD = 2.31) after the training & supplementary materials (M = 7.57, SD = 1.28),t(28) = 2.26, p = 0.032.Large effect size (d = 0.841).

\*Amongst participating EPCS teachers

## Discussion

- Amongst this specific sample of EPCS teachers, qualitative data & open-ended responses indicated **UDLI training** & **supplementary** materials supported understanding & implementation of UDLI
  - Additional reported supports: conversations with grown-ups (i.e., parents, guardians) to better understand needs of children; collaboration within & across teaching teams

### UDLI Training & Supplementary Materials: Strengths

- Overview of UDLI framework followed by concrete examples (e.g., EPCS classroom images)
- Opportunities for **choice** in workshop activity
- Repetition of UDLI content (e.g., teacher training, supplementary materials, surveys) across school year
- Clear & concise "Fact Sheets"
- Emphasis on mindfulness & intentionality behind UDLI practices

#### UDLI Training & Supplementary Materials: Growth Areas

- Additional concrete examples
- Need for more sharing of & conversation about UDLI examples in classrooms to expand learning & implementation
- Exploration of inclusion as distinct addition to UDL framework
- Strategies for working with specific children (e.g., "children with learning differences", "children with Autism")
- Identify action & follow-up steps to implement UDLI

## **Future Directions at EPCS**

- **Continued implementation** of UDLI at EPCS
  - Essential to identify ways to practice flexibility in application of UDLI principles based on unique classroom profiles
- Applications of UDLI deliverables for introductory training to orient new staff (i.e., start of school year) &/or for professional development
  - Opportunities for new and experienced teachers to reflect on UDLI & develop mentoring relationships within & across teaching teams
- Further engaging **EPCS families** to foster meaningful connections between home & school environments around applications of UDLI
- Expand UDLI deliverables to focus on inclusion
- Future OT doctoral projects to further increase collaboration between **EPCS & Tufts Department of Occupational Therapy** 
  - Social skills groups focused on self-regulation & social thinking

### **Future Directions Beyond EPCS**

- Opportunities for sharing UDLI deliverables
- Importance of interdisciplinary collaboration in educational settings
  - Occupational therapy (OT) practitioners can support through strengths-based, participation-focused approach
- Advocacy for OT role in assessing & implementing UDLI in classrooms (e.g., attention to environmental barriers & supports, activity analysis, etc.)

## Contact & Acknowledgements

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References & **Additional Materials** 

