

## BACKGROUND/ LITERATURE REVIEW

### Background

- The I-PLAYprogram at ULprovides physical activity opportunities for children (5-21 yrs) with disabilities.
- It is run by UL faculty and delivered by 3<sup>rd</sup> &4th-year Physical Education and Sport Science (PESS) students.
- The program allowed me work with an interdisciplinary team beyond traditional OT settings.
- Aligns with my interests in physical activity, advocacy, and expanding OTroles.
- I offered indirect OTservices byeducating instructors to strengthen their confidence to support I-PLAYparticipant engagement.

### Literature review

Children have the right to meaningful, equitable participation in Physical education, yet several barriers limit instructors’ ability to support all learners:

- I-PLAYinstructors feel underprepared to support students with ASD, consistent with research showing only moderate teacher confidence, even though brief training can improve it (Baek et al., 2024).
- Despite IDEA's mandate for inclusion, limited training and systemic barriers still affect consistent implementation (U.S. Department of Education, 2025).
- Aneeds assessment targeted to I-PLAYstakeholders, highlighted challenges in addressing sensory, cognitive, and motor needs, particularly when adapting activities or responding to dysregulation
- Adapted PE is expanding, but OTinformed strategies are not routinely used, even though collaboration is recommended and instructors want more practical tools (Philpott Robinson et al., 2024; Ortlinghaus, 2021).
- Increased training and collaboration, specifically incorporating OTexpertise, can strengthen meaningful participation in PE for all students.

## MODELS/ THEORIES/ FRAMEWORKS

| MODELS / FRAMEWORKS                                                                          | CONTRIBUTION                                                                     |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Dunn’s Model of Sensory Processing                                                           | Guided deliverables, education, etc.                                             |
| Partnering 4 Change Model (P4C)                                                              | Guided how education was delivered (collaboration, capacity-building, coaching). |
| Aclinical reasoning framework for children with ASDexperiencing sensory challenges framework | Clarified why sensory-informed strategies matter for students with ASD.          |

## GOALS, OBJECTIVES & ACTIVITIES

### Goal

Determine whether education from an Occupational Therapy (OT) perspective within the I-PLAYprogram improves I-PLAYinstructors' self efficacy to support and engage ASD students.

| INDIVIDUALIZED STUDENT LEARNING OBJECTIVES                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Develop an outline of strategies and a general informational presentation highlighting children with ASD and their sensory processing needs. This resource will support the education of I-PLAYinstructors &serve as a guide to assist in enhancing student participation in the I-PLAYprogram. |
| Administer education using deliverables and conduct a pre-/post survey after the education to evaluate instructor's self-efficacy in supporting children with ASD.                                                                                                                              |
| Refine and update the educational resources based on survey                                                                                                                                                                                                                                     |
| Develop a presentation/poster to disseminate my final project.                                                                                                                                                                                                                                  |

# Enhancing Inclusion: The Impact of OT-Informed Education on Instructors Supporting Students With Autism Spectrum Disorder (ASD) in the I-PLAYProgram at the University of Limerick (UL)

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## OUTCOME EVALUATION METHODS

### Program Development and Delivery

- Designed evidence-based strategies using the needs assessment and relevant literature.
- Delivered a 45-minute in-person presentation, provided in person guidance throughout the 12-week program, and provided additional support via email for I-PLAYinstructors.
- Created supplemental resources and uploaded them to the cloud-based learning management system for continued access.

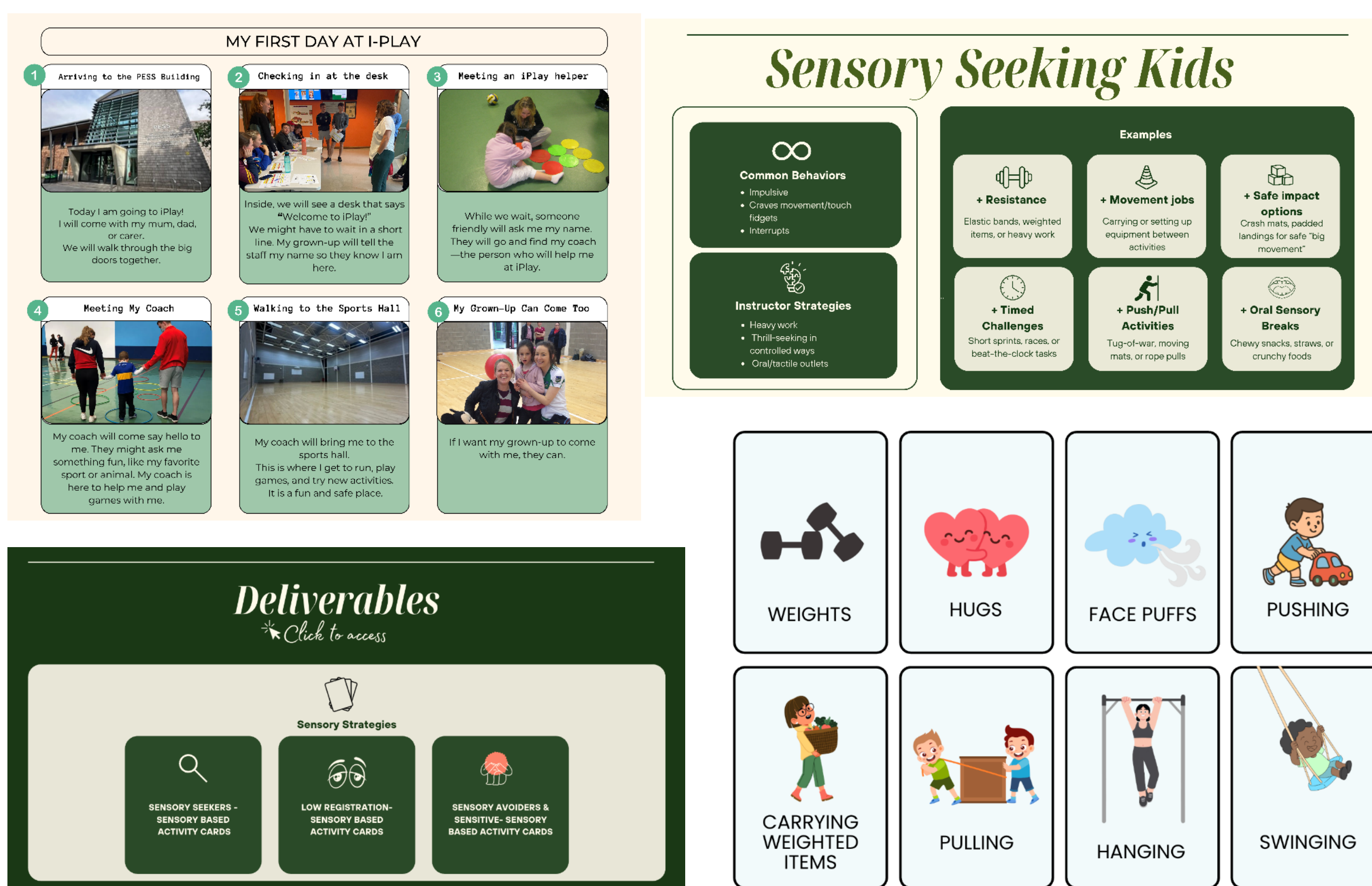
### Data Collection

- Data was collected through pre- and post-program surveys at the start and end of the course.
- Pre-and Post-surveys included:
  - Belief items (4-point Likert scale).
  - Confidence and Satisfaction items (5-point Likert scale).
  - Three open-ended questions for qualitative feedback.

## FINDINGS

### Outputs

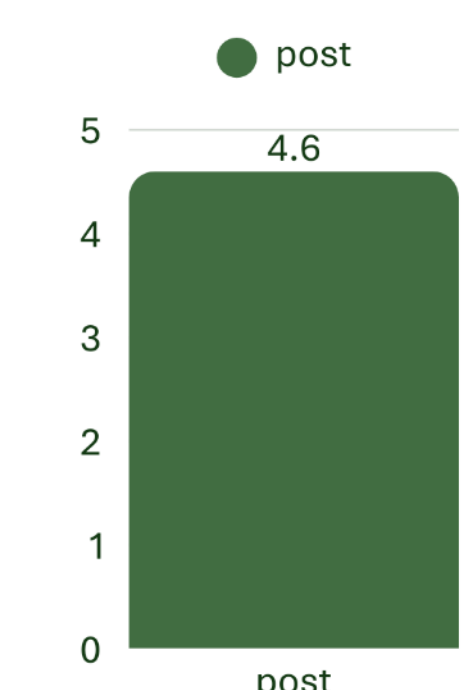
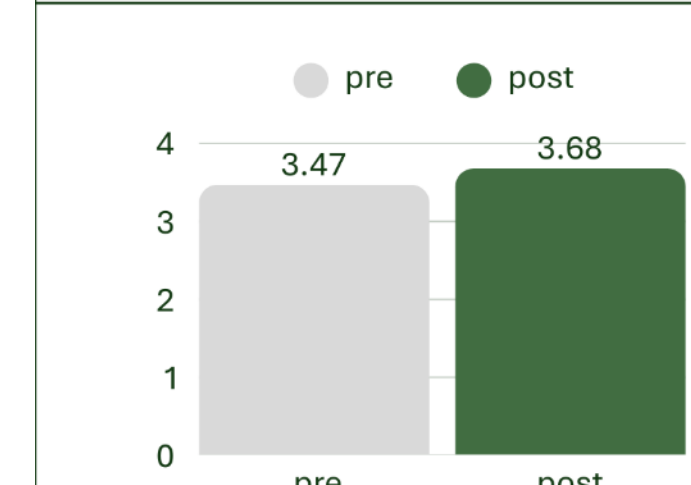
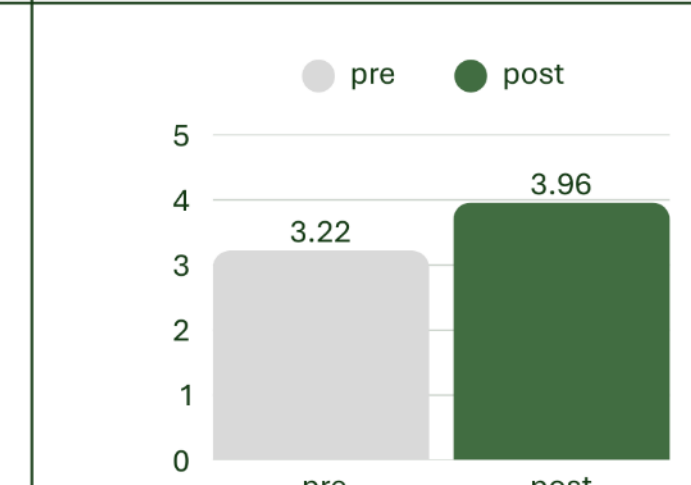
- Program content development
  - First day of I-PLAYsocial story
  - Sensory Strategy Activity resource cards
  - Updated intake forms
  - Environmental modifications of I-PLAYFacility Handout
  - Education on the lived experience of the ASD community
  - Applications taught and implemented include visual timer, box breathing, and a visual calendar
  - Augmentative and alternative communication (AAC) resources



### Outcomes

#### Qualitative Feedback

- Participant feedback indicated growing confidence and an increased ability to apply learned strategies in real-world contexts. Many participants emphasized the value of concrete examples and instructor modeling in supporting their learning. I-PLAYInstructors also expressed interest in additional hands-on, demonstration-based practice to further strengthen skill development.

| BELIEFS<br><i>Agreement with inclusion-related beliefs</i>                                                                            | CONFIDENCE<br><i>Confidence in applying &amp; supporting I-PLAYers via strategies</i>                                                   | SATISFACTION<br><i>Perceived relevance, usefulness, and satisfaction with education</i> |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Example question that showed the biggest change                                                                                       |                                                                                                                                         |      |
| “A child with ASD can contribute positively to the learning of peers during I-PLAY.”                                                  | “I can modify I-PLAY activities appropriately for a child with ASD.”                                                                    |                                                                                         |
|                                                    |                                                      |                                                                                         |
| Largest change in beliefs (+0.18) was observed between the pre and post survey                                                        | Largest change in confidence (+0.74) was observed between the pre and post survey                                                       |                                                                                         |
| OVERALL OUTCOMES                                                                                                                      |                                                                                                                                         |                                                                                         |
| Minimal change observed. However, scores were already high, indicating participants entered with positive attitudes toward inclusion. | Clear growth across most items. Increased confidence suggests strengthened self-efficacy in supporting and including children with ASD. | Reflects strong perceived value and applicability of the training.                      |

## ANTICIPATED IMPACT

- Sustained inclusive practices across I-PLAYand potentially other programs
- Strategies, presentations, and resources be adopted as part of ongoing professional development for future I-PLAYstudent instructors
- Student with ASD, experience increased participation, engagement, and success in physical education programs when Instructors that have been provided the OTinformed education
- Increased advocacy for inclusive practices and student supports
- Increased participation of students with ASD in the I-PLAYprogram

## CONCLUSION

This capstone demonstrated that OT-informed education can improve I-PLAY instructors’ confidence, preparedness, and strategies for supporting ASD students. Confidence is widely recognized as a core component of teacher self-efficacy (i.e., one’s beliefs in their capabilities to organize and execute actions required for effective teaching), the observed gains likely reflect meaningful increases in self-efficacy. Research supports this link: teachers with higher self-efficacy tend to show stronger teaching effectiveness, resilience, and capacity towards implementing inclusive practices (Lazarides & Warner, 2020; Gordon, 2023).

## ACKNOWLEDGEMENT & REFERENCES

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