



# RIO Group

## 2023 Research in Imagery and Observation Group Meeting

11-12 May 2023

University of Limerick, Ireland

### Welcome

We look forward to you joining us at our first in-person meeting since 2019! This year's RIO event will take place across two days; Thursday 11<sup>th</sup> and Friday 12<sup>th</sup> May 2023. The meeting will be hosted by Prof. Mark Campbell, Dr. Adam Toth and Sarah Cregan at the University of Limerick, Ireland. RIO group organisers Daniel Eaves, Cornelia Frank, David Wright, and Adam Bruton are looking forward to seeing all group members. This year's programme looks excellent, with contributions from various locations across Europe and beyond. We are very pleased to announce our two invited speakers for RIO 2023; Prof. Florent Lebon and Dr. Helen O Shea and look forward to building on the success of recent meetings.





### **Venue Location**

Kemmy Business School, Plassey Ave, Sreelane, Limerick.

### **Conference information**

The conference is free for all our speakers and delegates to attend!

### **Travel arrangements**

Directions to the University of Limerick, Ireland - see map via file link below



### **[Download File](#)**

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### **Travelling by Air**

3 Airports to choose from-

[Shannon International Airport](#) is only 25km from the university campus making Limerick accessible direct from a range of European destinations and world wide through the hub of London Heathrow. Check out their website for all destinations to Shannon

[Dublin Airport](#)- 2 hour bus journey away. Well serviced by bus connections ([link](#))

[Cork Airport](#)- 1.5 hours bus journey away. Well serviced by bus connections although not as well as Dublin Airport ([link](#))

### **Travelling by Sea**

[Ferry services](#) operate from the UK and France and regular coach and train services operate from Dublin and Cork to Limerick daily.

### **Travelling by Bus**

[Bus Eireann](#) provide connections to and from all Ireland's major cities, including Limerick. Telephone 353 (0)61 313333 for more information. The service offered by Bus Eireann runs from Shannon Airport to the main Limerick City bus station, Colbert Station, Parnell Street, Limerick. This bus departs at least once every hour from the Airport and costs approximately €5.30 one way. For a detailed timetable you should log onto [www.buseireann.ie](http://www.buseireann.ie), and click on Airport Services. The last bus departs daily at 00h00 (midnight).

[JJ Kavanagh & Sons](#) provides a service between Shannon Airport and 3 stops in Limerick: Arthurs Quay in the City Centre, outside the main gate of the university (Flagpoles of UL) or into the university (main campus bus stop). Tel: +353 (0)56 8831106. For a detailed timetable log onto [www.jjkavanagh.ie](http://www.jjkavanagh.ie), select Route "Shannon Airport - Limerick - Nenagh - Portlaoise - Kildare - Dublin City - Dublin Airport" timetable.

### [M7 Express Service](#)

Dublin Coach and Eireagle offer direct buses from the University of Limerick to Dublin Airport & City Centre for €10.00 pme way.

### Travelling by Car

If you decide to rent a car from the airport the best route to get to Limerick by road can be found by logging onto this [route planner](#).

Accommodation information. There are a number of good hotels within walking distance of the main campus. On the basis of their quality and location, the recommended hotels include:

1. Castletroy Park Hotel \*\*\*\* ([link](#)). 5 mins walk to campus
  2. Kilmurray Lodge Hotel \*\*\* ([link](#)). 10 mins walk to campus
  3. Travel Lodge Hotel \*\*\* ([link](#)). 10 mins walk to campus
  4. On Campus Accomodation Apartments (2, 3 and 4 bed apartment accommodation) ([link](#))
  5. City Centre Hotels (10 min bus journey from campus)
- The Savoy Hotel \*\*\*\* ([link](#))
  - The George Hotel \*\*\*\*
  - The Absolute Hotel \*\*\*\* ([link](#))



## **RIO 2023 Conference Schedule Thursday May 11<sup>th</sup>**

**8:30-9:00:** Registration (Coffee)

**9:00-9:10:** Welcome and Introduction

**9:10-10:30:** Presentations (4x 20min slots →15min + 5min Questions)

### ***(Theme: Advances in Imagery Training and Motor Learning)***

1. **Cornelia Frank:**  
Just imagine throwing the ball? The influence of imagery training on motor learning in children
2. **Andrea Polzien:**  
Is learning by way of imagery of motor actions driven by changes in action planning?
3. **Judith Bek:** Observational learning in paired practice: Investigating effects of gender and motor imagery.
4. **Magdalena Gippert:**  
Motor Imagery of Linked Movements Enhances Motor Adaptation.

**10:30- 11:00:** Break (Coffee)

**11:00-12:00:** Presentations (3x 20min slots →15min + 5min Questions)

### ***(Theme: Motor Simulation and Movement Disorders)***

1. **David J. Wright:**  
The development of a library of movement demonstration videos to support skill acquisition in children with developmental coordination disorder.
2. **María del Rosario Ferreira Sánchez:**  
Are people with Parkinson's disease capable of performing vivid and accurate Motor Imagery?
3. **Dan Lin:**  
The development of a home-based mental practice protocol for chronic stroke neurorehabilitation: A qualitative investigation.

**12:00-1:30:** Lunch & Poster Session (Posters A0 Landscape Format)

**1:30-2:30:** Invited Talk Prof. Florent Lebon

The neurophysiological mechanisms underlying learning with motor imagery: from brain to spine.

**2:30- 3:30:** Presentations (3x 20 min slots →15min + 5min Questions)

**(Theme: Motor Simulation & Neurophysiology)**

**1. Marcos Moreno-Verdú:**

The Hand Laterality Judgement Task might not be an accurate index of implicit motor imagery ability

**2. Dagmara Budnik-Przybylska:**

Exploring the influence of personal factors on physiological responses to mental imagery in sport

**3. Ladislav Nalborczyk:**

Evidence for motor simulation during inner speaking

**3:30:** Group Photo

**7:00:** Dinner

**RIO 2023 Conference Schedule Friday May 12<sup>th</sup>**

**9:30-9:50** Coffee

**9:50-11:30** Presentations (5x 20min slot →15min + 5min Questions)

**(Theme: Motor Imagery: Theoretical & Methodological Implications)**

1. **Molly Brillinger**  
Imagine all the people! Can we account for the assumed motor abilities of other people?
2. **Maaïke Esselaar**  
The development and validation of a self-report measure of combined action observation and motor imagery ability: The AOMI-AQ
3. **David J. Wright**  
An international estimate of the prevalence of differing visual imagery abilities
4. **Camilla Woodrow-Hill**  
Combined action observation and motor imagery of keyboard typing: Automatic imitation or cognitive interference?
5. **Amit Abraham & Eric Franklin**  
Mental Imagery in Focus of Attention: More than Internal-External?

**11:30-12:00** Coffee break

**12:00-1:00** Invited Talk Dr. Helen O Shea  
Examining the links between different mental and physical action types in a low-dimensional model

**1:00-2:00** Lunch

**2:00-3:40** Presentations (5x 20min slots → 15min + 5min Questions)

**(Theme: Motor Simulation & Cognition)**

1. **Stephan Frederic Dahm:**  
Hand and Foot Selection in Mental Body Rotations Involves Motor-Cognitive Interactions
2. **Elise Van Caenegem:**  
Is motor-imagery more like movement execution or working memory? A meta-analytic comparison.

3. **Shiau-Chuen Chiou:**

Working memory for movements: A theoretical link between action observation, mental imagery, and motor learning

4. **Carrie M. Peters:**

Motor or visual familiarity: Investigating the role of experience in motor imagery ability.

5. **Baptiste M Waltzing:**

The influence of perspective and spatial congruence on action observation

**3:40:** Closing remarks.

## RIO Conference 2023 Poster Session

May 11, 2023

Poster #1:

**Title:** *Working together or working against each other? A comparison of cooperative and competitive dyad learning environments to individual practice in an online relative-timing task*

**Author:** Molly Brillinger

Poster #2:

**Title:** *Investigating the Neurophysiological Mechanisms Underlying Action Observation Interventions in Team Sports Collective Efficacy Manipulation.*

**Author:** Ingrid Aadland

Poster #3:

**Title:** *The Influence of Body Expressions on the Perception of Collective Efficacy in Team Sport Settings*

**Author:** Jack Mitchell

Poster #4:

**Title:** *Testing for modulated interhemispheric inhibition when motor execution is combined with concurrent observation or motor imagery*

**Author:** Matthew Scott

Poster #5:

**Title:** *Motor imagery drives the effects of coordinated action observation and motor imagery on corticospinal excitability for lower-limb actions*

**Author:** Neza Grilc

Poster #6:

**Title:** *Exploring the influence of embodiment on the effectiveness of combined action observation and motor imagery training for novices learning Brazilian jiu-jitsu movements*

**Author:** Samantha Chye



Poster #7:

**Title:** *Examining changes in corticospinal excitability as a function of coordination between simultaneously observed and imagined single leg sit to stand actions.*

**Author:** Ashika Chembila Valappil

Poster #8:

**Title:** *Examining the use of Imagery techniques in the treatment of clinical disorders in Irish healthcare.*

**Author:** Sarah Cregan