

[](http://riogroup.weebly.com/) **RIO group** [](https://twitter.com/_RIOgroup_)

**2019 Annual Research in Imagery and Observation Group Meeting**

**25-26 April 2019**

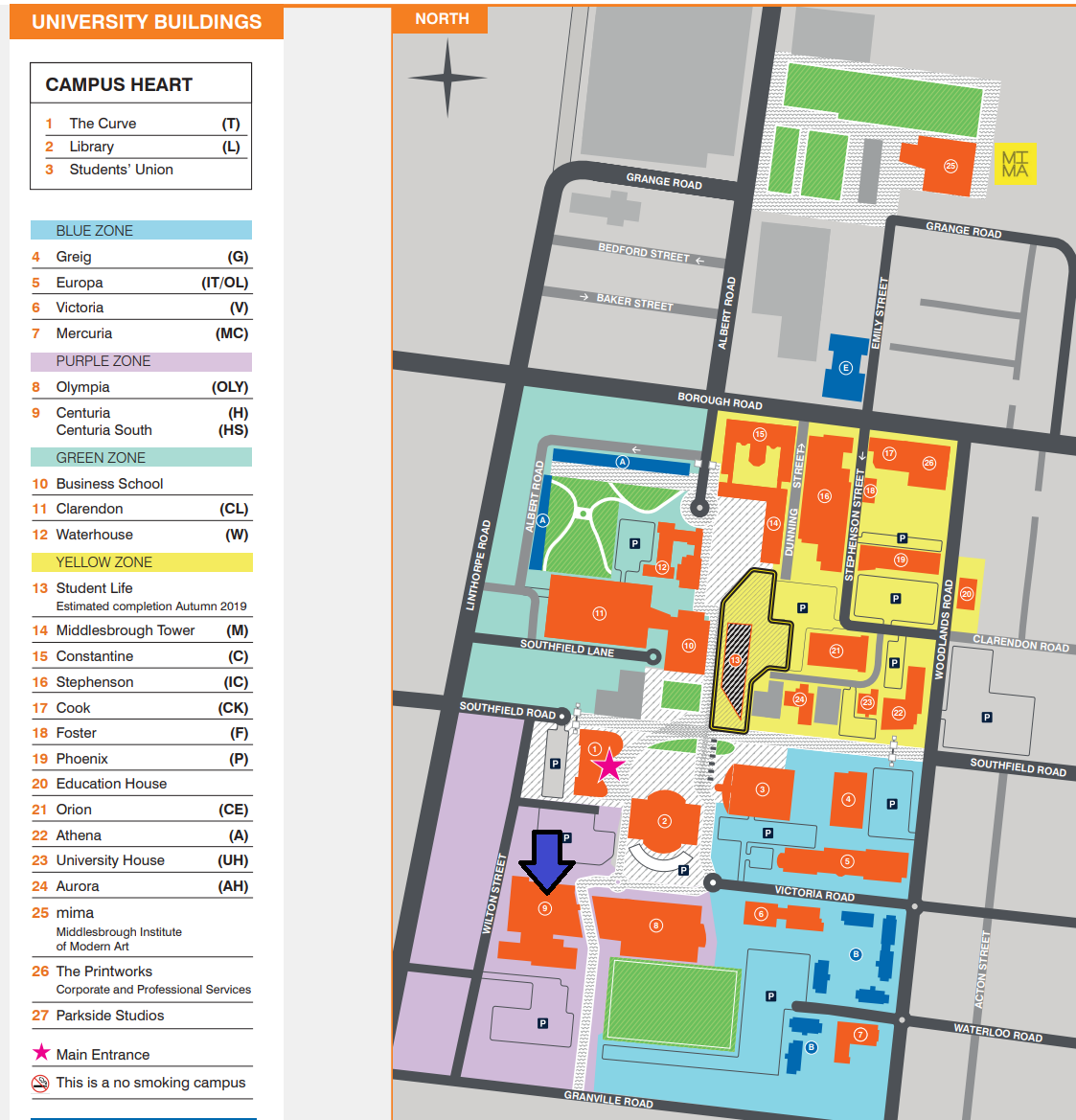
**Teesside University, Middlesbrough, UK**



**Welcome**

Welcome to this year’s RIO group meeting! The RIO group organisers Daniel Eaves, Cornelia Frank, David Wright, and Adam Bruton are looking forward to seeing all group members for the 2019 RIO group meeting in the North East of England. The meeting will take place 25-26 April at Teesside University hosted by Daniel Eaves as local organiser. This year’s programme looks excellent again, with contributions from various locations across Europe and beyond. With this programme, we look forward to building on the success of recent meetings.





We would like to thank the School of Health and Social Care at Teesside University for providing us with financial support and a venue to host the 2019 Annual RIO Group Meeting. We would also like to thank tobii pro for their attendance and subsequent sponsorship of the meeting. Representatives of tobii pro will be demonstrating their eye-tracking equipment to delegates during the first day of the meeting and we urge those interested to discuss products with them during the day.

**Venue and Travel Information**  
The meeting will be held in the Centuria Building (building 9),

Teesside University,

Middlesbrough,

Tees Valley,

TS1 3BX

United Kingdom.

A [campus map](https://www.tees.ac.uk/docs/docrepo/about/CampusMap.pdf) and [travel information](http://www.tees.ac.uk/sections/about/visiting/travel.cfm)

can be found online.

**Research in Imagery and Observation**

**2019 Conference Schedule**

**Thursday 25th April**

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| **08.30 – 09.00** | **Registration** (Foyer in front of lecture theatre, Centuria Building) |
| **09.00 – 09.20** | **Welcome and Introduction** (Lecture Theatre H0.01, Centuria Building) |
| **09.20 – 10.40** | **Oral Session 1: Motor imagery: Motor learning and rehabilitation** (Lecture Theatre H0.01, Centuria Building) |
| 09.20 | **Jack P. Solomon**, Sarah N. Kraeutner, Shaun G. Boe  Dalhousie University  **Investigating the role of the supplementary motor area in motor imagery based skill acquisition** |
| 09.40 | **Sarah N. Kraeutner**, Jennifer L. McArthur, Alexandra Stratas, Shaun G. Boe  Dalhousie University  **Exploring the evolution of skill acquisition via motor imagery** |
| 10.00 | **Theresa Gaughan,** Taylor Prentice, Shaun G. Boe  Dalhousie University  **Exploring the optimal dosage of motor imagery for upper-limb rehabilitation post-stroke** |
| 10.20 | **Jack A. Binks,** Christopher Wilson, Paul Van Schaik, Daniel L. Eaves  Teesside University  **Motor skill learning after stroke: Motor imagery during action observation enhances learning of a complex bilateral movement sequence task in the absence of physical practice** |
| **10.40 – 11.40** | **Coffee Break and Poster Session: Imagery and Observation across Domains** (Foyer in front of lecture hall, Centuria Building)  *Complementary Tea/Coffee Available*  **Paul D.E. Baniqued**, E. Stanyer, F. Mushtaq, M. Awais, A. Alazmani, A. Jackson, M. Mon-Williams, R. Holt  University of Leeds  **Motor Imagery and Brain-Computer Interfaces for Hand Rehabilitation After Stroke: A Systematic Review**  **Judith Bek1**, Aline Arakaki1, Matthew Sullivan2, Ellen Poliakoff1  1University of Manchester, 2 Manchester Metropolitan University  **The role of action representation in dance for people with Parkinson’s**  **Jayesha Chudasama**, Gorana Pobric, Shaheen Hamdy, Cheryl Capek  University of Manchester  **Using action observation, imagination and imitation to learn meaningful associations between nonsense actions and abstract symbols**  **Samantha Chye1**, Ceri E. Diss1, David A. Shearer2, Adam M. Bruton1  1University of Roehampton, 2University of South Wales  **The effects of combined action observation and motor imagery on self-efficacy and learning in Brazilian jiu-jitsu athletes**  **Zoe Franklin,** David Wright, Paul Holmes  Manchester Metropolitan University  **Using action congruent language facilitates the motor response during action observation: A combined TMS and eye tracking study**  **Ryan Kenny,** Arash Abdolazimi, Jonathan Emmerson, Matt Scott, Paul Chesterton, Daniel L. Eaves  Teesside University  **Acute treatments effects for motor imagery during action observation on postural control during quiet standing**  **JungWoo Lee**, Sarah Kraeutner, Devan Pancura, and Shaun Boe  Dalhousie University  **Duration of motor imagery performance impacts cortical excitability**  **Cormac McLoughlin-Gavin1,** David Shearer2, Adam Bruton1  1University of Roehampton, 2University of South Wales  **Comparing simulation-based methods as pre-performance interventions for semi-professional cricket batsmen**  **Ellen Poliakoff1,** Judith Bek1, Chesney Craig2, Zoe Franklin2, Matthew Sullivan2, Emma Gowen1, Stefan Vogt3, Trevor Crawford3, Paul Holmes2  1University of Manchester, 2Manchester Metropolitan University, 3Lancaster University  **Action Imagery and Observation in Neurorehabilitation for Parkinson’s Disease (ACTION-PD): A pilot RCT of a home-based intervention to improve functional actions**  **Gabriel David Valadez Roque1,** Alvaro Florencio Torres Chávez2  1Instituto Nacional de Rehabilitación, 2 Universidad Nacional Autónoma de México  **Effects of action observation plus motor imagery on the recovery of paretic hand in stroke patients**  **Matthew Scott,** Jonathan Emerson, Adam Gilmartin, Daniel Eaves  Teesside University  **Motor imagery during action observation modulates automatic imitation in aging individuals**  **Hayley Shepherd,** Judith Bek, Emma Gowen, Ellen Poliakoff  University of Manchester  **How do people with Parkinson’s watch other people’s actions?**  David Wright1, Gavin Buckingham2, **Greg Wood1**  1Manchester Metropolitan University, 2University of Exeter  **Corticospinal excitability markers of embodiment with a prosthesis: A pilot study**  **Andrei Zarie,** L. O’Hare, P.M.J. Pollux  University of Lincoln  **Emotional body expressions modulate steady-state visually evoked potentials** |
| **11.40 – 13.20** | **Oral Session 2:** **Combined Action Observation and Motor Imagery: Theoretical issues and behavioural effects** (Lecture Theatre H0.01, Centuria Building) |
| 11.40 | **Adam M. Bruton1**, Zoe C. Franklin2, Paul S. Holmes2, Daniel L. Eaves3 & David L. Wright2  1University of Roehampton, 2Manchester Metropolitan University, 3Teesside University  **Corticospinal excitability and eye gaze markers of different combined action observation and motor imagery states** |
| 12.00 | **Jonathan Emerson,** Paul van Schaik, Matthew Scott & Daniel Eaves  Teesside University  **fNIRS and behavioural correlates of motor imagery during action observation in people with depression and agency misattribution** |
| 12.20 | **Matthew Scott,** Jonathan Emerson, John Dixon, Martin Tayler & Daniel L. Eaves  Teesside University  **The effect of motor imagery during action observation on imitation of familiar rhythmical actions in children with and without developmental coordination disorder** |
| 12.40 | **Eoghan McNeill,** Niall Ramsbottom, Adam J Toth, Mark J Campbell  University of Limerick  **The combined effect of action observation and motor imagery (AO+MI) on golf putting performance** |
| 13.00 | **Cornelia Frank1,** Felix Hülsmann1, Thomas Waltemate1, David Wright2, Daniel L. Eaves3, Adam Bruton4, Mario Botsch1, Thomas Schack1  1Bielefeld University, 2Manchester Metropolitan University, 3Teesside University, 4University of Roehampton  **AO+MI in virtual reality: Practicing at a level that one has not yet achieved** |
| **13.20 – 14.00** | **Lunch Break (Cafeteria)**  *Hot Food and Sandwiches Available for Purchase* |
| **14.00 – 15.00** | **Invited Talk 1** (Lecture Theatre H0.01, Centuria Building)  **Richard Ramsey**  Bangor University  **Cognitive and brain mechanisms of social perception and interaction** |
| **15.00 – 16.00** | **Coffee Break and Poster Session: Imagery and Observation across Domains** (Foyer in front of lecture hall, Centuria Building)  *Complementary Tea/Coffee Available*  *For posters, see first Coffee Break and Poster Session of 2019 RIO Meeting* |
| **16.00 – 17.00** | **Research in Imagery and Observation – Fostering Collaboration/Networking Session** |
| **17.00 – 17.15** | **Annual Group Meeting Photo** (Entrance Hall, Centuria Building) |
| **17.15 – 17.45** | **Tobii Pro Demonstration** (Lecture Theatre H0.01, Centuria Building) |
| **18.30** | **Meet for Drinks** – The Dickens Pub, 4 Southfield Rd, Middlesbrough TS1 3BZ |
| **19.30** | **Conference Dinner** – ‘The Oven’ restaurant 206-209 Linthorpe Rd, Middlesbrough TS1 3QW |

**Research in Imagery and Observation**

**2019 Conference Schedule**

**Friday 26th April**

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| **09.15 – 09.30** | **Welcome and Introduction** (Lecture Theatre H0.01, Centuria Building) |
| **09.30 – 10.50** | **Oral Session 3: Visual Attention and Action Observation** (Lecture Theatre H0.01, Centuria Building) |
| 09.30 | **Maaike W.H.H. Esselaar,** Zoe Franklin , David Wright, Dave Smith, Paul Holmes  Manchester Metropolitan University  **The effect of personality type on attentional bias and its manipulation in patients with chronic back pain** |
| 09.50 | **Daniel T. Smith1,** Neil Archibald2, Dr Soazig Casteau1  1Durham University, 2 South Tees NHS Hospitals Trust  **The role of the oculomotor system in spatial working memory** |
| 10.10 | **Soazig Casteau,** Jacob Hathaway, Amanda Ellison, Daniel T. Smith  Durham University  **Do the eye-movement system and the hand-movement system contribute independently to attentional orienting: a TMS study** |
| 10.30 | **Shiau-Chuen Chiou,** Thomas Schack  Bielefeld University  **Is temporal information integrated with spatial information during action observation? Effects of visual attention on the processing of whole-body movement sequences** |
| 10.50 | **Judith Bek1,** Emma Gowen1, Stefan Vogt2, Trevor Crawford2, Ellen Poliakoff1  1University of Manchester, 2Lancaster University  **Imitation of biological movement in Parkinson’s disease: a kinematic and eye-tracking study** |
| **11.10 – 11.50** | **Coffee Break and Poster Session: Imagery and Observation across Domains** (Foyer in front of lecture hall, Centuria Building)  *Complementary Tea/Coffee Available*  *For posters, see first Coffee Break and Poster Session of 2019 RIO Meeting* |
| **11.50 – 12.50** | **Invited Talk 2** (Lecture Theatre H0.01, Centuria Building)  **Robert Hardwick**  KU Leuven  **Neural correlates of action: Comparing meta-analyses of imagery, observation, and execution** |
| **12.50 – 13.30** | **Lunch Break (Cafeteria)**  *Hot Food and Sandwiches Available for Purchase* |
| **13.30 – 14.00** | **Discussion Session** (Lecture Theatre H0.01, Centuria Building)  **Stefan Vogt and Daniel L. Eaves: Future Directions for Research in Imagery and Observation?** |
| **14.00** | **Conference End** (*optional* social activity) |