

Master of Neuroscience Protocol Presentation Programme

Friday 16 May

Location: Auditorium, Neuroscience Institute

09:00–09:20 | **Matthew Murphy** | *The Neurocognitive Effects of Cocoa Flavanols: A Systematic Review of Functional MRI Findings*
Supervisors: Dr Tarryn Williams, Prof Dan Stein

09:20–09:40 | **Victoria Pettitt** | *The Neuroendocrine Basis of Power: A Scoping review of Cortisol's Hormonal Interactions and Behavioural Outcomes in Power Dynamics*
Supervisors: Dr Melike Fourie, Dr Ziphozihle Ntwatwa

09:40–10:00 | **Shannon Winnaar** | *The Efficacy of Virtual Reality for Neuropsychological Rehabilitation in Paediatric Traumatic Brain Injury: A Systematic Review*
Supervisors: Prof Leigh Schrieff-Brown, Ms Alexa Soule

10:00–10:20 | **Byron Swart** | *The Impact of Neuropsychiatric Symptoms on Functional Impairment and Cognitive Decline in Dementia: A Retrospective Analysis in a South African Memory Clinic Population*
Supervisors: Prof John Joska, Ms Alexa Soule

10:20–10:30 | **BREAK**

10:30–10:50 | **Thokozani Kubheka** | *Systematic Review: Using artificial intelligence to make neurosurgical care more accessible in low resource settings*
Supervisor: Prof Graham Fieggen

10:50–11:10 | **Noa Anthony** | *From Womb to Brain: Mapping the Impact of Perinatal Maternal Anxiety on Infant and Childhood Brain Structure and Function*
Supervisors: Dr Sheri Koopowitz, Dr Jonathan Ipser

11:10–11:30 | **Julia Courtenay** | *Neural Correlates of Face-Brain Dysmorphology in Children with Fetal Alcohol Spectrum Disorders*
Supervisors: Dr Jia Fan, Ms Xolisile Thusini, Ms Catherine Namayega

11:30–11:50 | **Syuri Yogolingam** | *Early Psychosocial and Environmental Determinants of Adult-Onset Dementia in Low- and Middle-Income Countries: A Scoping Review*
Supervisors: Dr Catherine Wedderburn, Dr Monika Kamkuemah

11:50–14:10 | **LUNCH BREAK**

Light lunch will be provided in the Atrium.

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14:10–14:30 | Chloe Cook | *Secondary Genomic Findings in Whole Exome Sequencing: A Descriptive Study of an African Rare Disease Cohort*
Supervisors: Dr Melissa Nel, Nabeelah Peerbhai

14:30–14:50 | Kristin Haskins | *Applications of Machine Learning in the accurate diagnosis of Internet Addictions and prediction of treatment outcomes: A Systematic Review*
Supervisors: Prof Jonathan Shock, Dr Freda Scheffler

14:50–15:10 | Luné Du Plessis | *“We Do Not Yet Know What The Body Can Do” – A Philosophical Analysis of the Sensorimotor Body and Resultant Cognition in Touch-Only Embodied Robotic Agents*
Supervisors: Prof Geoff Nitschke, Prof Ryan Nefdt

15:10–15:30 | Chris Kim | *Towards the Free Energy Principle in the Abstraction and Reasoning Corpus*
Supervisor: Prof Jonathan Shock