



UNIVERSITY OF
CAMBRIDGE

STEMM Libraries

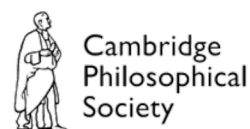
Presents

WEST HUB
RESEARCH
CAFÉ

DATA
INTENSIVE
SCIENCES

Wednesday. 17th January 2024

Sponsors and Collaborators:



1

Uncovering the thermal footprint: the impact of land use and cover changes on urban land surface temperature dynamics

Liliia Hebryn Baidy, Scott Polar Research Institute

2

A Bayesian functional principal component analysis

Daniel Temko, MRC Biostatistics Unit

3

Deep learning-assisted multivariate analysis for nanoscale characterization of heterogeneous beam-sensitive materials

Fanzhi Su, Department of Materials and Metallurgy

4

Identifying viral proteins amongst uncharacterised proteins in the NCBI protein database

Katy Brown, Department of Pathology

5

Identifying hard-to-decarbonize houses from multi-source data in Cambridge, UK through deep learning

Maoran Sun, Department of Architecture

6

Machine learning application in space metagenomics to characterise antimicrobial resistance on the ISS

Pedro Madrigal, EMBL-EBI



1 **Modelling primordial gravitational waves with numerical relativity**
Ericka Florio, Department of Applied Mathematics and Theoretical Physics

2 **Matching nano-entrepreneurs with mentors in emerging markets: customizing business mentoring based on mentee & mentor characteristics**
Soniya Gupta-Rawal, Judge Business School

3 **Identifying viral proteins amongst uncharacterised proteins in the NCBI protein database**
Katy Brown, Department of Pathology

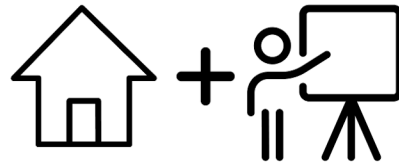
4 **Customising 3D cell segmentation to study pre-implantation mouse embryos**
Anita Karsa, Department of Physiology, Development And Neuroscience

5 **Uncovering the thermal footprint: the impact of land use and cover changes on urban land surface temperature dynamics**
Liliia Hebryn Baidy, Scott Polar Research Institute



11:30 **RECEPTION
& POSTERS**

Welcome &
Exploring



TALKS

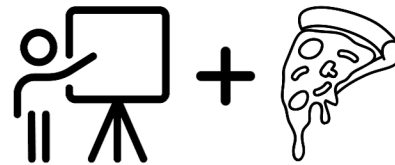
12:00

Keynote &
Lightning Talks



**POSTERS
& PIZZA**

13:00 Lunch & Posters



**PRIZES
& SOCIAL**

14:00

Prize Draw &
Social Tea Break



**DATA INTENSIVE SCIENCES
WEDNESDAY, 17TH JANUARY 2024**