

**From omega to Omega  
Workshop on Computability Theory, Set Theory  
and their interactions  
(19–30 June 2023)**



**Venue**

IMS Auditorium  
Institute for Mathematical Sciences  
3 Prince George's Park  
Singapore 118402

**ORGANIZING COMMITTEE**

**Co-Chairs**

James W Cummings  
Carnegie Mellon University

Noam Greenberg  
Victoria University of Wellington

Ralf Schindler  
University of Münster

Yue Yang  
National University of Singapore

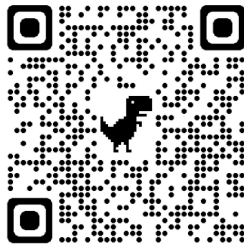
Liang Yu  
Nanjing University

# Workshop on Computability Theory, Set Theory and their interactions (19–30 June 2023)

## Monday, 19 June 2023

| Time      | Title  | Speaker  |
|-----------|--|--|
| 0930–1000 | Registration   |  |
| 1000–1100 | Determinacy and reflection principles in second-order arithmetic       | Keita Yokoyama<br>Tohoku University, Japan                 |
| 1100–1200 | Martin’s conjecture for order preserving functions above the hyperjump | Patrick Lutz<br>University of California, Los Angeles, USA |
| 1200–1400 | Lunch Break  |  |
| 1400–1500 | Martin-Loef randomness, 2-randomness, and reverse mathematics          | Andre Nies<br>University of Auckland, New Zealand          |

## Tuesday, 20 June 2023

| Time      | Title   | Speaker  |
|-----------|---|--|
| 0945–1000 | Registration  |  |
| 1000–1100 | The tree theorem for singletons in the Weihrauch degrees  | Damir Dzhafarov<br>University of Connecticut, USA                                    |
| 1100–1200 | The Hausdorff dimension of continuous images  | Joseph S. Miller<br>University of Wisconsin–Madison, USA                             |
| 1200–1400 | Lunch Break   |  |
| 1400      | <p><u>Social Event</u><br/>Venue: Gardens By the Bay<br/>Voluntary<br/>1-way transfer from IMS to the Gardens<br/>(Prices vary based on the attraction choice.<br/><a href="https://www.gardensbythebay.com.sg">https://www.gardensbythebay.com.sg</a>)</p> |  |

## Thursday, 22 June 2023

| Time      | Title  | Speaker  |
|-----------|--|--|
| 0945–1000 | Registration   |  |
| 1000–1100 | Quasi-axiomatizability of algorithmically presented structures | Bakh Khossainov<br>University of Electronic Science and Technology of China, China |

| Thursday, 22 June 2023 |  |   |
|------------------------|--|---|
| Time                   | Title  | Speaker   |
| 1100–1200              | Quasi-Isometric Reductions Between Infinite Strings          | Ziyuan Gao<br>National University of Singapore,<br>Singapore            |
| Friday, 23 June 2023   |  |   |
| Time                   | Title  | Speaker   |
| 0945–1000              | Registration   |   |
| 1000–1100              | A recursion-theoretic approach to classification in topology | Alexander Melnikov<br>Victoria University of Wellington,<br>New Zealand |
| 1100–1200              | Topos-theoretic aspect of the degrees of unsolvability       | Takayuki Kihara<br>Nagoya University, Japan                             |

**This schedule is accurate as of 16 June 2023. It is subjected to changes**