**Infectious disease modelling course**

**Jointly organised by LSHTM, Fudan University and HKU under the auspices of NIHR EPIC**

**12-14 August 2019**

**Note**

All students are required to bring their own notebook computers with relevant modelling software pre-installed. We will send instructions on how to install this software.

**Faculty**

Mark Jit LSHTM (co-organiser)

Yang Liu LSHTM

Joseph Wu HKU (co-organiser)

Kathy Leung HKU

Tommy Lam HKU

Yu Hongjie Fudan (co-organiser)

**August 12, 2019**

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| **Time** | **Activities** | **Faculty** |
| 08.00 – 08.30 | Registration | - |
| 08.30 – 08.45 | Brief welcome from Fudan University | Hongjie Yu |
| 08.45 – 09.00 | Introduction to the course | Mark Jit  Joseph Wu |
| 09.00 – 10.15 | Lecture 1: Introduction to infectious disease modelling | Joseph Wu |
| 10.15 – 10.30 | Coffee break | - |
| 10.30 – 12.30 | Practical 1: simple infectious disease modelling using Excel\* | Mark Jit |
| 12.30 – 13.30 | Lunch | - |
| 13.30 – 14.30 | Lecture 2: Introduction to R programming | Yang Liu |
| 14.30 – 14.45 | Coffee break | - |
| 14.45 – 16.50 | Practical 2: simple R exercises | Yang Liu |
| 16.50 - 17.00 | Summary of day | Mark Jit |

\*During the practical faculty will check on R/RStudio and phylodynamic software installation on students’ computers

**August 13, 2019**

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| **Time** | **Activities** | **Faculty** |
| 09.00 – 10.30 | Practical 3: more complex infectious disease modelling using R | Kathy Leung |
| 10.30 - 10.45 | Coffee break |  |
| 10.45 – 12.30 | Case study 1: modelling smallpox interventions | Joseph Wu |
| 12.30 – 13.30 | Lunch | - |
| 13.30 – 15.00 | Lecture 3: Economics of infectious diseases | Mark Jit |
| 15.00 – 15.15 | Coffee break | - |
| 15.15 – 16.50 | Practical 4: Economic evaluation of vaccination | Mark Jit |
| 16.50 - 17.00 | Summary of day | Joseph Wu |

**August 14, 2019**

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| **Time** | **Activities** | **Faculty member** |
| 09.00 – 10.00 | Lecture 4: Phylodynamic analysis | Tommy Lam |
| 10.00 – 10.15 | Coffee break | - |
| 10.15 – 12.30 | Practical 5: Phylodynamic analysis | Tommy Lam |
| 12.30 – 13.30 | Lunch | - |
| 13.30 – 15.00 | Lecture 5: Uses of infectious disease modelling in China | Hongjie Yu + China CDC |
| 15.00 – 15.15 | Coffee break | - |
| 15.15 – 16.30 | Panel discussion and general Q&A | All lecturers |
| 16.30 - 17.00 | Summary, closing and presentation of certificates | Mark Jit  Joseph Wu  Hongjie Yu |