

### Agenda

The British Library  
96 Euston Road  
NW1 2DB, UK

The Alan Turing Institute is located on the first floor of the British Library (right hand side) and can be accessed via the main doors from 09:30 onwards. Please allow 15 minutes for queuing when planning your journey.

### Monday 13 January 2020

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|---------------|---|
| 10:00 – 10:30 | Registration and refreshments   |
| 10:30 – 10:35 | <b>Introduction and welcome</b><br><i>Patrick Rebeschini, The Alan Turing Institute and University of Oxford</i>              |
| 10:35 – 11:20 | <b>Implicit regularization for general norms and errors</b><br><i>Lorenzo Rosasco, Massachusetts Institute of Technology</i>  |
| 11:20 – 12:05 | <b>Can learning theory resist deep learning?</b><br><i>Francis Bach, INRIA</i>  |
| 12:05 – 13:15 | Lunch   |
| 13:15 – 14:00 | <b>A function space view of overparameterized neural networks</b><br><i>Rebecca Willet, University of Chicago</i>             |
| 14:00 – 14:45 | <b>Benign overfitting</b><br><i>Peter Bartlett, University of California, Berkley</i>   |
| 14:45 – 15:15 | Refreshment break   |
| 15:15 – 16:00 | <b>Fast and optimal low-rank tensor regression via importance</b><br><i>Garvesh Raskutti, University of Wisconsin-Madison</i> |
| 16:00 – 16:45 | <b>Big data is low rank</b><br><i>Madeleine Udell, Cornell University</i>   |
| 16:45 – 17:00 | <b>Event summary, day 1</b><br><i>Quentin Berthet, The Alan Turing Institute and Google</i>                                   |
| 17:00 – 18:30 | Poster session and drinks reception   |
| 18:30         | Event close   |

## Statistics and computation

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### Tuesday 14 January 2020

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|---------------|--|
| 10:00 – 10:30 | Registration and refreshments  |
| 10:30 – 10:35 | <b>Introduction and welcome</b><br><i>Ramji Venkataramanan, The Alan Turing Institute and University of Cambridge</i>                                    |
| 10:35 – 11:20 | <b>Data-driven regularisation for solving inverse problems</b><br><i>Carola-Bibiane Schönlieb, The Alan Turing Institute and University of Cambridge</i> |
| 11:20 – 12:05 | <b>Statistical Physics and Learning</b><br><i>Florent Krzakala, Sorbonne Université and Ecole Normale Supérieure</i>                                     |
| 12:05 – 13:15 | Lunch  |
| 13:15 – 14:00 | <b>Learning from ranks, learning to rank</b><br><i>Jean-Philippe Vert, Google Brain and Mines ParisTech</i>  |
| 14:00 – 14:45 | <b>Approximate cross validation for large data and high dimensions</b><br><i>Tamara Broderick, Massachusetts Institute of Technology</i>                 |
| 14:45 – 15:15 | Refreshment break  |
| 15:15 – 16:00 | <b>From causal inference to autoencoders, memorization and gene regulation</b><br><i>Caroline Uhler, Massachusetts Institute of Technology</i>           |
| 16:00 – 16:45 | <b>Does learning require memorization? A short tale about a long tail</b><br><i>Vitaly Feldman, Google Research, Brain Team</i>                          |
| 16:45 – 17:15 | <b>Event summary, day 2</b><br><i>Varun Kanade, The Alan Turing Institute and University of Oxford</i>   |
| 17:15         | Event close  |