

## Mathematics of Intelligences Tutorials

### Tuesday September 10, 2024

- 8:00–8:55 *Check-in/Breakfast (hosted by IPAM)*
- 8:55–9:00 *Welcome and Opening Remarks*
- 9:00–10:15 **Mayank Mehta** (University of California, Los Angeles (UCLA))  
*Neural mechanisms of intelligence 1*
- 10:15–10:45 *Break*
- 10:45–12:00 **Hongjing Lu** (University of California, Los Angeles (UCLA))  
*Computational Models of Human Cognition 1*
- 12:00–12:30 *Core Orientation with IPAM Staff*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:15 **Ida Momennejad** (Microsoft Research)  
*Reinforcement Learning and architectures of intelligence 1*
- 3:15–3:45 *Break*
- 3:45–5:00 **Erica Cartmill** (Indiana University Bloomington)  
*Basic Models of Animal Cognition 1*

### Wednesday September 11, 2024

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–10:15 **Mayank Mehta** (University of California, Los Angeles (UCLA))  
*Neural mechanisms of intelligence 2*
- 10:15–10:45 *Break*
- 10:45–12:00 **Hongjing Lu** (University of California, Los Angeles (UCLA))  
*Computational Models of Human Cognition 2*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 **Scott Page** (University of Michigan)  
*The Wisdom of Crowds: Diverse Intelligences and Collective Predictions and Classifications*
- 3:15–3:45 *Break*
- 3:45–5:00 **Erica Cartmill** (Indiana University Bloomington)  
*Basic Models of Animal Cognition 2*



## Thursday September 12, 2024

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–10:15 **Scott Page** (University of Michigan)  
*Diverse Intelligences and Problem Solving*
- 10:15–10:45 *Break*
- 10:45–12:00 **Misha Belkin** (University of California, San Diego (UCSD))  
*The elusive generalization and easy optimization 1*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 **Ida Momennejad** (Microsoft Research)  
*Reinforcement Learning and architectures of intelligence 2*
- 3:15–3:45 *Break*
- 3:45–5:00 **Misha Belkin** (University of California, San Diego (UCSD))  
*The elusive generalization and easy optimization 2*

## Friday September 13, 2024

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–10:15 **Mayank Mehta** (University of California, Los Angeles (UCLA))  
*Neural mechanisms of intelligence 3*
- 10:15–10:45 *Break*
- 10:45–12:00 **Erica Cartmill** (Indiana University Bloomington)  
*Basic Models of Animal Cognition 3*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 **Josh Bongard** (University of Vermont)  
*Evolutionary computation*
- 3:15–3:45 *Break*
- 3:45–5:00 **Ida Momennejad** (Microsoft Research)  
*Reinforcement Learning and architectures of intelligence 3*

