

## Agenda: Social Simulation With Large Language Models

CSH Workshop, May 27 – 29, 2024

Room 201, Complexity Science Hub, Josefstädterstraße 39, 1080, Vienna

Monday, May 27th - Open day

### **09:00 - 09:20 - Welcome by David, Mirta, and Henrik**

### **09:20 - 10:40 - Session 1 - LLMs to Simulate Individual Behavior**

Bob West: Enabling and evaluating LLM agents

Henrik Olsson: LLMs for studying belief dynamics

Max Pellert: AI Psychometrics: Assessment of non-cognitive traits of LLMs

Gaël Le Mens: - TBD

### **10:40 - 11:00 - Coffee break**

### **11:00 - 12:20 - Session 2 - LLMs to Represent Societies**

Markus Strohmaier: Large Language Models and Surveys

Georg Ahnert: In Silicon Surveys with Fine-Tuned, Modular Large Language Models

Indira Sen: Measurement and Representation Biases in LLM-based Simulations of People

### **12:20 - 13:40 - Lunch break at CSH**

### **13:40 - 15:00 - Session 3 - LLMs to Simulate Collective behavior**

Jana Lasser: Agent-based models for social simulation and the potential of LLMs

Mathias Angermaier: LLMs as a source of "Natural Language" in group discussions

Bablu Singh: TBD

Mirta Galesic: LLMs for studying collective adaptation

### **15:00 - 15:20 - Coffee break**

### **15:20 - 16:40 - Session 4 - LLMs to Simulate Online Behavior**

Chris Bail: Simulating Social Media using Large Language Models

David Garcia: In Silico Policy Analysis for Algorithmic Social Media

Annie Waldherr: Enhancing ABMs with LLMs for modeling digital public spheres

Giordano De Marzo: Modeling Network Growth and Opinion Dynamics with LLMs

### **16:40 - 17:00 - Wrap up**

## Organizers

David Garcia - In Silico Policy Analysis for Algorithmic Social Media

Mirta Galesic - LLMs for studying collective adaptation

Henrik Olsson - LLMs for studying belief dynamics

## Participants (confirmed)

Markus Strohmaier, University of Mannheim - In Silicon Surveys with Fine-Tuned, Modular Large Language Models

Bablu Singh, RWTH Aachen - TBD

Mathias Angermaier, CSH Vienna - LLMs as a source of "Natural Language" in group discussions

Indira Sen, University of Konstanz - Measurement and Representation Biases in LLM-based Simulations of People

Jana Lasser, University of Graz - Agent-based models for social simulation and the potential of LLMs

Chris Bail, Duke University - Simulating Social Media using Large Language Models

Gaël Le Mens, Pompeu Fabra University - TBD

Annie Waldherr, University of Vienna - Enhancing ABMs with LLMs for modeling digital public spheres

Giordano De Marzo, University of Konstanz- Modeling Network Growth and Opinion Dynamics with Large Language Models

Bob West, EPFL - Enabling and evaluating LLM agents

Max Pellert, University of Mannheim - AI Psychometrics: Assessment of non-cognitive traits of large language models

Georg Ahnert, University of Mannheim - In Silicon Surveys with Fine-Tuned, Modular Large Language Models