

TWEAKING DEMOCRACY: INNOVATIONS IN DEMOCRATIC DECISION MAKING

# Logistics

Adrian Haret

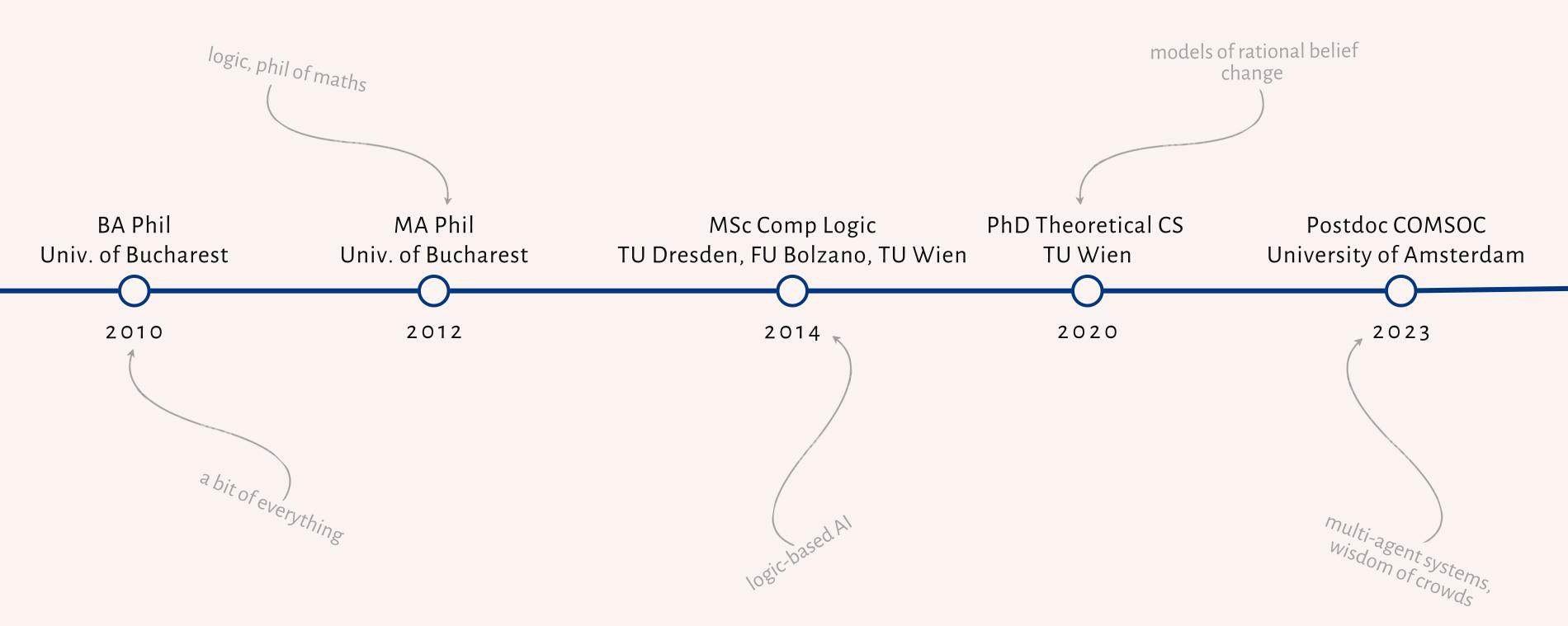
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Let's first get to know each other.



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# Your turn!

# FORMAT

### **FORMAT**

In-person, on campus,\* 2hrs each.

45 mins + 15 mins break (to ask questions, take naps) + 45 mins.

Slides will be posted online after the lectures.\*\*

Adrian starts with spend the first weeks laying out the framework.

This will be followed by discussions on key papers, led by students.

### **SCHEDULE**

One lecture per week

Thursday, 18:00 - 20:00, Room 028 (here!)

### **FIRST LECTURE**

November 8, 2023 (now!)

### LAST LECTURE

February 7, 2024

# EVALUATION

### **GRADE**

50% class participation

- presenting a paper, leading the discussion
  50% final essay
  - research on some topic that caught your interest
  - can be a review of existing literature, tackling a research question, coding up something (a simulation) and reporting the results
  - potential research topics will be flagged during the lectures with the following symbol:
  - there will also be a list on the course website (forthcoming!)
  - about half-way through the course, we will have a preliminary discussion on the chosen topic

# ETIQUETTE

# **PERSONAL WORK**

Don't plagiarize, etc.

# **RESPECT TOWARDS PEERS**

Please.

# **QUESTIONS DURING LECTURES**

Yes!

Feel free to interrupt and ask.

# AIMS

# SINK YOUR TEETH INTO THIS FASCINATING TOPIC

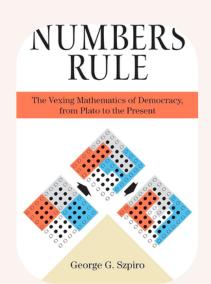
Very interdisciplinary topic, with broad reach.

Won't be able to touch on *all* the work, but (hopefully!) just enough.

# FAMILIARITY WITH WAYS TO THINK ABOUT DECISION METHODS

In particular, the final essay should reflect that aim!

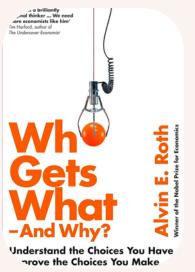
# POPULAR SCIENCE



#### **GEORGE G. SZPIRO**

Numbers Rule. The Vexing Mathematics of Democracy, from Plato to the Present

Princeton University Press, 2020



#### **AL ROTH**

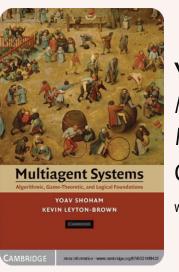
Who Gets What — and Why: The New Economics of Matchmaking and Market Design

Mariner Books, 2016



Slides, papers, videos: stay tuned!

# USEFUL TEXTBOOKS

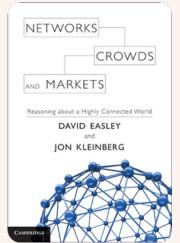


#### YOAV SHOHAM & KEVIN LEYTON-BROWN

Multiagent Systems: Algorithmic, Game-Theoretic, and Logical Foundations

Cambridge University Press, 2008.

www.masfoundations.org/mas.pdf



#### **DAVID EASLEY & JON KLEINBERG**

Networks, Crowds, and Markets.

Cambridge University Press, 2012

https://www.cs.cornell.edu/home/kleinber/networks-book/networks-book.pdf



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# TOPICS

**VOTING** 

APPORTIONMENT, OR THE ART OF ELECTING A PARLIAMENT

**MATCHING** 

THE WISDOM OF CROWDS

PARTICIPATORY BUDGETING

LIQUID DEMOCRACY