## Mar 23: Agenda

- Beyond model checking, direct proof:
- And elimination:

$$
\frac{\alpha \wedge \beta}{\alpha}
$$

- Modus ponens:

$$
\frac{\alpha \Longrightarrow \beta, \alpha}{\beta}
$$

- Resolution rule:

$$
\frac{\alpha \vee \beta, \gamma \vee \neg \beta}{\alpha \vee \gamma}
$$

■ First-order logic: an initial introduction

