



## Karlstad Applied Analysis Seminar (2023)

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### **Mathematical models for epidemics (including Covid-19)**

#### **Abstract**

In the talk I will first describe the basics for mathematical epidemic models, and indicate the many extensions that exist. Then I will briefly describe three problems I (and many others) have worked on during Covid-19: Herd immunity, Optimizing interventions in time and magnitude, and the significance of the generation time distribution and why it is hard to infer.