



Atelier : Les femmes en mathématiques à l'époque de la COVID  
8 mars 2021

Workshop: Women in Mathematics during the time of COVID  
March 8, 2021

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**Modelling and policy in the COVID-19 pandemic**

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I will describe several mathematical models related to covid-19 transmission and their use and application in public health. First I will describe how we have modelled social distancing and its impact using Bayesian estimation and briefly remark on the uses of this modelling structure for short-term forecasting of the impact of higher-transmission variants of concern. Next I will describe modelling vaccination rollout and the advantages of vaccinating essential workers -- defined as those with unavoidable high contact levels at work -- earlier in the vaccination program in Canada.