



# The Norwegian regional stochastic model of the Covid-19 epidemics.

**Wednesday, February 10, 2021 at 12:00 pm ET**

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### Topics covered during this webinar:

- Stochastic SEIR-type model for the Covid-19 epidemics, used by Norwegian health authorities to make short-term predictions.
- Explanation of how decisions are made, and how data is collected and made available in Norway's efficient and well organised public health system.
- How we use mobile phone mobility data streams to represent movements of individuals and how imported infections can be taken into account.
- Inference and assumptions made using different models based on data and sequencing.
- Challenges faced based upon the parameters of these models.



**Speaker: Arnaldo Frigessi**, University of Oslo, Norway

**Moderator: Gyan Bhanot**, Rutgers University

Arnaldo Frigessi is professor of statistics at the University of Oslo, leads the Oslo Center for Biostatistics and Epidemiology and is director of BigInsight. BigInsight is a centre of excellence for research-based innovation, a consortium of industry, business, public actors and academia, developing model based machine learning methodologies for big data. Originally from Italy, where he had positions in Rome and Venice, he moved to Norway in 1997 as a researcher at the Norwegian Computing Centre, before he became professor at the University of Oslo. Frigessi has developed statistical methods motivated by specific problems in science, technology and industry. He has designed stochastic models to study principles, dynamics and patterns of complex dependence. Inference is usually based on computationally intensive stochastic algorithms. Currently, he has research collaborations in genomics, personalised therapy in cancer, infectious disease modeling, including Covid 19, personalised and viral marketing, sensor data and recommender systems. He has published more than 120 papers in peer reviewed journals and has supervised 41 PhD students and 14 postdocs.

### About the CRRG

The COVID Research and Resources Group (CRRG) aims to connect physicists and other scientists through COVID-related research and education efforts. If you would like to join CRRG, visit our website, find our community on [engage.aps.org](https://engage.aps.org), or email [crrg@aps.org](mailto:crrg@aps.org) and we will connect with you.