

HEURE: 10H45 – 11H45

LIEU: Salle Delachaux, Bâtiment Proline
rte de la Corniche 10, 1010 Lausanne
& via WebEx

MARDI
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COLLOQUE

«APPLYING EXTREME VALUE THEORY TO PUBLIC HEALTH»

INTERVENANTE

■ DANYU LI

Danyu Li obtained a Bachelor of Science degree from Jiangsu University in China in 2020, and a Master of Science degree (with a major in statistics) from the University of Geneva in 2023. She is currently working on a PhD thesis at Unisanté, Lausanne, under the supervision of Dr. Patrick Taffé.

ABSTRACT

This talk will show applications of the extreme value theory to public health data. We will present two methods in relation to the extreme value theory: the blocks method and the peaks-over-threshold method and apply them to weekly death rates from pneumonia and influenza over the period 1979-2011 in France. We will then present an extended version of the extreme value theory which can be applied in the multivariate setting. More specifically, we shall attempt to build a structural equation model using the peaks-over-threshold method in order to study causal relationships among multiple variables.

Recommandé par la Société Suisse des Spécialistes en prévention et santé publique (SPHD) pour la reconnaissance de la formation continue. Participer à la réunion WebEx

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