# Victor Lhoste

Third year PhD candidate at Imperial College London specializing on clustering and epidemiology.

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## Skills

Statistics, Bayesian statistics, machine learning, clustering

Epidemiology, global health

R, Python, Pyro/Numpyro Git, bash, data visualization

## Work History

2020/10 -	PhD: Epidemiology and biostatistics Imperial college London, UK
2024/06	<ul> <li>Data science and mathematical modelling for global environmental health, funded by the School of Public Health and under supervision of Prof Majid Ezzati <i>Topic: Clustering of multiple cardiometabolic risk factors worldwide</i></li> <li>Collected and harmonized data from multiple surveys worldwide for NCD-RisC database.</li> <li>Developed multivariate methods for outlier detection for the NCD-RisC database.</li> <li>Identified cardiometabolic phenotypes using clustering methods and presented them with innovative visualization.</li> <li>Developed a Hierarchical Bayesian mixture models in Numpyro (Python) to compare cardiometabolic phenotypes in population subgroups.</li> <li>Graduate teaching assistant for MSc students in Statistics and Population Health modules</li> </ul>
2020/01 –	Digital skills trainer The London School of Economics and Political Science, London,
2021/03	<ul> <li>UK</li> <li>Training students and staff in R and Python at the digital skill lab</li> <li>Creating teaching materials</li> <li>Delivering workshops</li> <li>Provided online coding support</li> </ul>
2018/04 – 2018/08	<ul> <li>Statistics research Intern The Regional Center for Research in Cancerology and Immunology, Nantes, France</li> <li>Worked on Multiple myeloma Cancer including <ul> <li>visualization and processing data from RNA-seq single cell using R</li> <li>prediction of the distribution of multiplets thanks to machine learning and detection of multiplets for myeloma</li> <li>Strong interactions with biologists and statisticians</li> </ul> </li> </ul>
2017/10 -	Engineering project Sysnav, Nantes, France
2018/03	<ul> <li>Worked on motion detection through an accelerometer called actimyo:</li> <li>Building a database of common motions (walk, run, fall)</li> <li>Detecting motions with machine learning in Python.</li> </ul>

#### **2016/01 – Private mathematics teacher** *Self-employed*

**2021/01** Tutoring on a weekly basis several students from A level to "Classes preparatoires" (equivalent of Bachelor) in mathematics and physics during weekends and evenings.

### **Education**

Languages		

Languages			
French			
English			
Spanish			
Norwegian			

## **Publications**

Rami Al-Jafar et al. "Effect of Religious Fasting in Ramadan on Blood Pressure: Results From LORANS (London Ramadan Study) and a Meta-Analysis". In: *Journal of the American Heart Association* 10.20 (2021), e021560.

Bin Zhou et al. "Worldwide trends in hypertension prevalence and progress in treatment and control from 1990 to 2019: a pooled analysis of 1201 population-representative studies with 104 million participants". In: *The Lancet* 398.10304 (2021), pp. 957–980.