



Medical Doctor in Public Health

Stéphane TUFFIER

As a doctor in public health, I want to improve people's health. I do believe that we can make better use of health data to improve disease knowledge and to create and promote new innovations in health. During four years of public health residency and a master in health services research, I have sharpened my skills in adapting myself to new challenges, working in multi-disciplinary teams, managing projects, and handling and analysing big health data.

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Skills

Research

- Realised bibliographic research
- Created research protocol (epidemiology, clinical research, health services evaluation)
- Redacted scientific papers

Project management

- Worked in multi-disciplinary teams including patients, doctors, nurses, geographers, politicians
- Coordinated and managed small teams

Big data

- Realised various data management (R, SQL, dbplyr)
- Used unstructured data in a data-warehouse (text-mining)
- Standardised bacteriological data in a data-warehouse

Epidemiology

- Used classic statistics models (linear and logistic regressions) and mixed effect models
- Spatial data analysis with R and sf
- Gave methodological advices for epidemiological and clinical studies

Informatics

- Advanced user of R and associated packages
- Work with Windows and GNU/Linux operating systems
- Frequent use of git and gitlab (code management software)

Other

- Spoke English (fluent, TOEIC C1), French (mother tongue), Danish (basic, A2)

Education

2021: Medical Doctor in public health, MD (University of Rennes 1, France)

2020: Master of Public Health, Health Services Research speciality (University Claude Bernard Lyon 1, France)

2010: High school degree (France)

Experiences

Oct 2022 – Present: Research Assistant at the University of Copenhagen, Denmark

- Studied the effect of air pollution and traffic noise on the incidence of dementia and psychiatric disorders
- Prepared a PhD project on effects of air pollution on prognosis of cardiovascular diseases

March 2022 – June 2022: Redactor for the National Research Agency on Infectious Diseases (INSERM ANRS-MIE), Paris, France

- Reviewed evidence on PrEP and PEP prevention treatments for the upcoming update of French guidelines on HIV, viral hepatitis and sexually transmitted infections. Delivery is expected for 2023

Nov 2017 – Oct 2021: Public health Residency, France

After the first 6 years of medical studies, French medical students can specialise themselves in public health with a residency. It consists of 4 years with eight six month internships in different health care and research units with tasks and projects changing with each internship.

- **May 2021 – Oct 2021: Brittany Regional Institute of Health Promotion and Education (IREPS), Rennes,**

France

- Realised interviews of policy officers in Breton cities to evaluate the environmental health program of the Brittany regional health agency
- **Nov 2020 – Apr 2021: Epidemiology and Public Health Unit, Rennes University Hospital, Rennes, France**
 - Created of a survey start and promote Health Promotion actions inside the hospital
 - Reviewed measurement methods for hospital readmissions due to adverse drug events
- **May 2020 – Oct 2020: Health direction of French Polynesia (Direction de la santé de Polynésie française), Papeete, French Polynesia**
 - Managed a COVID-19 contact tracing team
 - 👤 Designed a pragmatic protocol to evaluate the French Polynesia primary health care modernisation program
- **Nov 2019 – May 2020: Health Massive Data (DMS) research team (INSERM, LTSI-UMR 1099), Univ Rennes, CHU Rennes, Rennes, France**
 - Explored and prepared bacteriology data for real time detection of surgical site infections in the hospital in collaboration with the Hygiene Unit
- **May 2019 – Oct 2019: Hospital Hygiene Unit, Rennes University Hospital, Rennes, France**
 - Managed risk associated with hospitalisation of patient colonised with multidrug-resistant bacteria
 - Watched and controlled hospital acquired infections
- **Nov 2018 – Apr 2019: Research Institute on Health Environment and Work (IRSET - Inserm UMR 1085), Rennes, France**
 - Studied air pollution effects on sperm quality in a Barcelona cohort
- **May 2018 – Oct 2018: Public Health and Epidemiology, Rennes University Hospital Rennes, France**
 - Studied desert dust exposure and effects on preterm birth in Guadeloupe using NASA data in the BrumiSaTerre cohort. This included the management of 10 years of daily air pollution measurements for 900 pregnant woman
 - 👤 Redacted one paper and my medical thesis
- **Nov 2017 – Apr 2018: Department of medical information (DIM), Rennes University Hospital, Rennes, France**
 - Developed a study and analysed the prolonged length stay at the hospital using patient records and ICD-10 diagnosis-related groups.

Aug 2020 – Aug 2021: Treasurer of the French national association of public health residents (CLiSP - Collège de liaison des internes de santé publique):

- Managed association contracts with public and private partners
- Organised congress for the French residents

Sep 2015 – Jun 2017: General medical training, Caen, France

- Learned medicine with eight two months internships in hospital care units or general practice. Hospital internships included stays in medicine (incl. cardiology and heart transplantation unit) and surgical units.

Scientific communications

Major publications:

- **S. Tuffier**, E. Upegui, C. Raghoundan, J. F. Viel, and for the BrumiSaTerre research group, 'Retrospective assessment of pregnancy exposure to particulate matter from desert dust on a Caribbean island: could satellite-based aerosol optical thickness be used as an alternative to ground PM10 concentration?', *Environ Sci Pollut Res*, Jan. 2021, doi: 10.1007/s11356-020-12204-x
- **S. Tuffier**, D. Legallois, A. Belin, M. Joubert, A. Bailliez, M. Redonnet, D. Agostini, A. Manrique, 'Assessment of endothelial function and myocardial flow reserve using (15)O-water PET without attenuation correction', *Eur. J. Nucl. Med. Mol. Imaging*, febr. 2016, doi: 10.1007/s00259-015-3163-x

About me

During my free time I like to cycle, each year I set to myself new goals like racing on the famous *pavés* of Roubaix or doing Audax races (long distance cycle races). I also like sailing, discover new places and meet new people.