

Stéphane Tuffier

🏠 Banebrinken 103, 94 st
2400 Copenhagen
✉️ stephane.tuffier@sund.ku.dk
☎️ +45 40 43 95 33
in <https://www.linkedin.com/in/ste-tuf/>
💻 www.tuffier.eu

Education

2021: Medical Doctor (M.D.) specialized in public health (University of Rennes 1, Rennes, France)

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

2017: Diploma of Advanced Training in Medical Sciences (University of Caen Normandy, Caen, France)

2014: Diploma of General Training in Medical Sciences (University of Caen Normandy, Caen, France)

Volunteering

2021: Treasurer of the French National Association of Public Health Residents (CliSP).

2022: Volunteer at International Dual Career Network Copenhagen

PhD Student, M.D.

As a medical doctor specialized in epidemiology, I want to advance our understanding of chronic diseases and contribute to the development of innovative health solutions for patients suffering from them. I am pursuing a PhD on the effect of environmental exposure, like air pollution or road traffic noise, on children health and development, using nationwide Danish registers.

Skills

Project management

- Worked in multi-disciplinary teams including patients, doctors, nurses, geographers, politicians
- Coordinated and manage small teams
- Participated in teaching activities in epidemiology and public health

Data science

- Advanced use of R: work on, data management, statistical analysis, report generation, spatial analysis, package creation
- Worked with health big data: French and Danish health registers, text processing from medical record (text-mining).
- Worked both with Windows and GNU/Linux operating systems

Epidemiology

- Used biostatistics models including survival models with time varying covariates, mixed effects models, linear regression and generalized linear model
- Published several epidemiological papers within environmental epidemiology
- Delivered oral presentations at international conferences

Research

- Created and designed study protocols in epidemiology, clinical research and health services research
- Reviewed and analysed of existing scientific evidence
- Wrote scientific papers and study protocols
- Trained to reproducible research principles with quarto and git

Other

- Speak French (mother tongue), English (fluent, C1), Danish (B1)

Experiences

Oct 2024 – Present: PhD Student at the University of Copenhagen, Denmark

- Study of the associations between air pollution, road traffic noise and children development, including cognition development
- Research on the effect of prenatal exposure to acrylamide, a ubiquitous fried food contaminant, and young adults cardio-metabolic, reproductive, and mental health.

Oct 2022 – Sept 2024: Research Assistant at the University of Copenhagen, Denmark

- 🔍 Studied the associations between air pollution and road traffic noise and the incidence of dementia and psychiatric disorders in a cohort of 25,000 Danish nurses with 20 years of follow-up
- Presented study results in several international scientific conferences including 34th ISEE Conference.
- Taught environmental epidemiology statistical methods to masters students

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

- Reviewed evidence on PrEP and PEP HIV prevention strategies for the upcoming update of French guidelines on HIV, viral hepatitis and sexually transmitted infections.

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 eight six-month internships, each in different health care and research units and different tasks and projects adding up to 4 years. In addition to the practice, my residency included courses about epidemiology, biostatistics, methods and study design in medical research, health economics and environmental health.

- **May 2021 – Oct 2021: Brittany Regional Institute of Health Promotion and Education (IREPS), Rennes, France**
 - Designed and conducted a study to audit the environmental health program of the Brittany regional health agency using semi-directed interviews of policy officers of Breton municipalities.
- **Nov 2020 – Apr 2021: Epidemiology and Public Health Unit, Rennes University Hospital, Rennes, France**
 - Created a survey to review and promote health promotion initiatives 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**
 - Responsible of a contact tracing team for COVID-19 surveillance during the 2nd epidemic wave
 - ♀ 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 women
- **Nov 2017 – Apr 2018: Department of medical information (DIM), Rennes University Hospital, Rennes, France**
 - Developed and analysed prolonged length hospital stays using patient records and ICD-10 insurance claims

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

- Eight two-month internships in hospital care units or general practice. Hospital internships included stays in medicine (ex. cardiology, neurology) and surgical units.

Major scientific publications

- **Tuffier Stéphane**, Zhang Jiawei, Bergmann Marie, So Rina, Napolitano George Maria, Cole-Hunter Thomas, Maric Matija, Antic Sonja, Brandt Jørgen, Ketzel Matthias, Loft Steffen, Lim Youn-Hee, & Andersen Zorana Jovanovic. (2024). Long-term exposure to air pollution and road traffic noise and incidence of dementia in the Danish Nurse Cohort. *Alzheimer's & Dementia*. <https://doi.org/10.1002/alz.13814>
- **Tuffier, Stéphane**, Erika Upegui, Christina Raghoumandan, Jean François Viel, and the BrumiSaTerre research group. 2021. '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?' *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-020-12204-x>.