



## Curriculum Vitae

Personal information **Joris van Loenhout**

Work experience

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### **Current occupation** (*since September 2021*)

Project lead for Sciensano for various EU-funded activities (EU-HIP, EUVABECO, VEBIS Lot 4)

Lead of the COVID-19 vaccination surveillance team and coordinator of the LINK-VACC project.

### Main responsibilities

- Post-authorisation surveillance of COVID-19 vaccines in Belgium, which includes: 1) determining the uptake and coverage among the general population and specific (vulnerable) populations; 2) determining the effectiveness of the vaccines; 3) contributing to vaccine safety, including monitoring breakthrough infections
- Producing reports on COVID-19 vaccination surveillance. This includes periodical output (daily report, weekly report, dashboard) as well as one-time outputs (thematic reports, scientific articles)
- Responding to questions/requests on COVID-19 vaccination surveillance, including from CSS/HGR, FOD Volksgezondheid, COVID-19 Commissariat, health professionals, citizens, as well as to parliamentary questions
- Representing Sciensano in national and international platforms (e.g. Task Force Vaccination, operational contact point ECDC/WHO, chair of working groups Surveillance meetings with FAGG)
- Leading a team of 7 scientists, consisting of epidemiologists and data analysts

### **Previous work experience**

2014-2021 Senior Research Fellow: public health, epidemiology and natural disasters, Centre for Research on the Epidemiology of Disasters (CRED), Institute for Health and Society (IRSS), Université catholique de Louvain (UCLouvain).

#### Responsibilities

- Main researcher in various research projects, including:
  - EM-DAT à Natural disaster database
  - SCORCH à Heatwave preparedness in EU Neighbourhood
  - TACOM à Acceptance of COVID-19 measures
- Project management of various (EU-funded) projects
- Supervision of a team of ± 10 persons
- PhD supervision (member steering committee of Maria Moitinho de Almeida and Jideofor Thomas)

- Ogbu)
- Teaching, including:
    - Course coordinator of MSc course 'Applications of epidemiological methods in post conflict and disaster settings'
    - Academic coordinator of the two week intensive, university certified summer course on Assessing Public Health in Emergency Situations (APHES), 2018
    - Courses 'Introduction in disaster epidemiology' and 'Epi Info', within APHES, from 2017 and 2015 onwards, respectively
    - Tutorials on applications of disaster epidemiology, University of Nicosia, within the Erasmus Mundus Master Public Health in Disasters, 2020 onwards
  - Supervision of MSc students
- 2015-2018      Supervision of a Phd student (Daphne Reukers on the long-term impact of chronic Q fever and Q fever fatigue syndrome on work status and psychosocial functioning, co-promotor in her PhD (defended in April 2022))

Responsibilities

- Setting up study design
- Supervision of data collection and analysis process
- Revision of scientific publications
- Supervision of MSc students
- Reporting to the donor organisation

- 2010-2014      Long-term health impact of Q- fever patients in the Netherlands (basis for PhD thesis), Radboud University Nijmegen, the Netherlands.

Responsibilities:

- Data collection with questionnaires
- Quantitative analysis of data using SPSS
- Publishing in scientific journals
- Supervising research assistants and students
- Teaching: 'Q fever simulation' for medical and biomedical students

- 2007-2014      Researcher, Department of Environmental Health, Public Health Services Gelderland-Midden, the Netherlands.

Responsibilities:

- Programme manager within the Academic Collaborative Centre on Environmental Health (2014)
- Coordinator of 4 EU-funded environmental health projects
  - Pollution Reduction Options Network (PRONET), FP6 (2007-2009)
  - A European network for the training and development of public health & environment physicians (PHEEDUNET), DG Sanco (2008-2010)
  - Climate Change Adaptation by Training, Assessment and Preparedness (Climate-TRAP), DG Sanco (2009-2012)
  - Training of Professionals (TOP), DG Sanco (2010)
- Researcher on heat stress in the indoor environment of elderly people (AW-Klimaat), ZonMW (2011-2014)

- 2006              Assessment and creation of an inventory on hazardous

materials within the hospital and carrying out exposure measurements on inhalatory anaesthetics, at the Academic Medical Centre in Amsterdam

## Education and training

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### Education and awards

2015	PhD thesis nominated for Hermesdorf Award for Young Talent
2010-2015	PhD, Infectious Diseases Epidemiology, Radboud University Nijmegen, NL (diploma February 2015)
2004-2006	MSc, Toxicology and Environmental Health, Utrecht University, NL
2001-2004	BSc, Biological Sciences, Utrecht University, NL
2001-2002	Excellent Tracé, advanced option for high performance students in the first year of Biological Sciences
1995-2001	R.K. Gymnasium Juvenaat H. Hart, Bergen op Zoom, NL

### Additional information

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#### Publications

1. Sociodemographic and socioeconomic disparities in COVID-19 vaccine uptake in Belgium: a nationwide record linkage study; *J Epidemiol Community Health*; 26 December 2023; 8 pages; Cavillot L., **van Loenhout J.A.F.**, Devleeschauwer B., Wyndham-Thomas C., Van Oyen H., Ghattas J., Blot K., Van den Borre L., Billuart M., Speybroeck N., De Pauw R., Stouten V., Catteau L., Hubin P.
2. Factors underlying COVID-19 booster vaccine uptake among adults in Belgium; *BMC Res Notes*; November 2023; 6 pages; Vermeiren E., **van Loenhout J.A.F.**, Nasiadka L., Stouten V., Billuart M., Van Evercooren I., Catteau L., Hubin P.
3. Vaccine effectiveness against transmission of alpha, delta and omicron SARS-CoV-2-infection, Belgian contact tracing, 2021-2022; 11 May 2023; 9 pages; Braeye T., Catteau L., Brondeel R., **van Loenhout J.A.F.**, Proesmans K., Cornelissen L., Van Oyen H., Stouten V., Hubin P., Billuart M., Djiena A., Mahieu R., Hammami N., Van Cauteren D., Wyndham-Thomas C.
4. Covid-19 Vaccine effectiveness against Symptomatic infection and hospitalization in Belgium, July 2021-May 2022; *Eurosurveillance*; accepted on 15th of February 2023; Braeye T., **van Loenhout J.A.F.**, Brondeel R., Stouten V., Hubin P., Billuart M., Chung J., Vandromme M., Wyndham-Thomas C., Blot K., Catteau L.
5. Homologous and Heterologous Prime-Boost Vaccination: Impact on Clinical Severity of SARS-CoV-2 Omicron Infection among Hospitalized COVID-19 Patients in Belgium; *Vaccines*; 7 February 2023; 19 pages; Meurisse M., Catteau L., **van Loenhout J.A.F.**, Braeye T., De Mot L., Serrien B., Blot K., Cauët E., Van Oyen H., Cuypers L., Robert A., Van Goethem N.
6. Use and perception of information sources on COVID-19 measures by citizens of Belgium; *Front Commun*; 12 September 2022; 6 pages; **van Loenhout J.A.F.**, Aujoulat I., Van den Broucke, S.
7. Predictors of exceeding emergency under-five mortality thresholds using small-scale survey data from humanitarian settings (1999 - 2020): considerations for measles vaccination, malnutrition, and displacement status; *Arch Public Health*; 28 June 2022; 9 pages; Ogbu T.J., Scales S.E., de Almeida M.M., **van Loenhout J.A.F.**, Speybroeck N., Guha-Sapir D.
8. Investigating COVID-19 Vaccine Impact on the Risk of Hospitalisation through the Analysis of National Surveillance Data Collected in Belgium; *Viruses*; 16 June 2022; 8 pages; Erazo D., Vincenti-Gonzalez M.F., **van Loenhout J.A.F.**, Hubin P., Vandromme M., Maes P., Taquet M., Van Weyenbergh J., Catteau L., Dellicour S.
9. Clinical Severity of SARS-CoV-2 Omicron Variant Compared with Delta among Hospitalized COVID-19 Patients in Belgium during Autumn and Winter Season 2021-2022; *Viruses*; 14 June 2022; 16 pages; Van Goethem N., Chung P.Y.J., Meurisse M., Vandromme M., De Mot L., Brondeel R., Stouten V., Klamer S., Cuypers L., Braeye T., Catteau L., Nevejan L., **van Loenhout J.A.F.**, Blot K.
10. Vaccine effectiveness against onward transmission of SARS-CoV2-infection by variant of concern and time since vaccination, Belgian contact tracing, 2021; *Vaccine*; 12 April 2022; 11 pages; Braeye T., Catteau L., Brondeel R., **van Loenhout J.A.F.**, Proesmans K., Cornelissen L., Van Oyen H., Stouten V., Hubin P., Billuart M., Djiena A., Mahieu R., Hammami N., Van Cauteren D., Wyndham-Thomas C.
11. Incidence and Risk Factors of COVID-19 Vaccine Breakthrough Infections: A Prospective Cohort Study in Belgium; *Viruses*; 13 April 2022; 14 pages; Stouten V., Hubin P., Haarhuis F., **van Loenhout J.A.F.**, Billuart M., Brondeel R., Braeye T., Van Oyen H., Wyndham-Thomas C., Catteau L.
12. Risk perception and implementation of mitigation measures by populations living near Volcán de Colima, Mexico; *Human Ecology*; 18 February 2022; 12 pages; Lopez-Fletes, C.A., **van Loenhout, J.A.F.**, Kervyn, M.;
13. COVID-19 measures in Belgium: how perception and adherence of the general population differ between time periods; *BMC Public Health*; 7 February 2022; 12 pages; **van Loenhout J.A.F.**, Vanderplanken K., Van den Broucke S., Aujoulat I
14. Impact of Q-fever on physical and psychosocial functioning until 8 years after *Coxiella burnetii* infection: An integrative data analysis; *PLoS One*; 2 February 2022; 15 pages; Reukers D.F.M., van Jaarsveld C.H.M., Akkermans R., Keijmel S., Morroy G., van Dam A.S.G., Wever P., Wielders C.C., van der Velden K., **van Loenhout J.A.F.**, Hautvast J.L.A.

15. The relation between perceived and actual understanding and adherence: results from a national survey on COVID-19 measures in Belgium; *Int J Environ Res Public Health*; 28 September 2021; 28 pages; Vanderplanken K., Vandenbroucke S., Aujoulat I., **van Loenhout J.A.F.**
16. Does ethnic diversity impact on risk perceptions, preparedness and management of heat waves?; *Front Public Health*; 2 August 2021; 9 pages; Siman-Tov M., Vanderplanken K., Guha-Sapir D., **van Loenhout J.A.F.**, Adini B.
17. Determinants of adherence to COVID-19 measures among the Belgian population: an application of the Protection Motivation Theory; *Arch Public Health*; 12 May 2021; **van Loenhout J.A.F.**, Vanderplanken K., Scheen B., Van den Broucke S., Aujoulat I.
18. Heatwave-protective knowledge and behaviour among urban populations: a multi-country study in Tunisia, Georgia and Israel; *BMC Public Health*; 1 May 2021; 12 pages; **van Loenhout J.A.F.**, Vanderplanken K., Kashibadze T., Giuashvili N., Gamkrelidze A., Siman-Tov M., Adini B., Guha-Sapir D.
19. COVID-19 and heat waves: new challenges for healthcare systems; *Environ Res*; 20 April 2021; 8 pages; Bose-O'Reilly S., Daanen H., Deering K., Gerrett N., Huynen M.M.T.E., Lee J., Karrasch S., Matthies-Wiesler F., Mertes H., Schoierer J., van den Hazel P., **van Loenhout J.A.F.**, Nowak D.;
20. Street temperature, building characteristics and behaviour as determinants of indoor heat exposure *Sci Total Environ*; 20 April 2021; 9 pages; Zuurbier M., **van Loenhout J.A.F.**, le Grand A., Duijm F., Greven F., Hoek G.
21. Heatwave preparedness in urban Georgia: A street survey in three cities; *Sustain Cities Soc*; 19 April 2021; 15 pages; **van Loenhout J.A.F.**, Vanderplanken K., Moitinho de Almeida M., Kashibadze T., Giuashvili N., Gamkrelidze A.
22. Hospital resilience after the 2015 earthquake in Nepal: results from semi-structured interviews with hospital staff; *Front in Public Health*; 26 February 2021; 10 pages; Moitinho de Almeida M., **van Loenhout J.A.F.**, Thapa S.S., Kumar K.C., Mahara D.P., Guha-Sapir D., Aujoulat I.
23. Governing heat waves in Europe: comparing health policy and practices to better understand roles, responsibilities and collaboration; *Health Res Policy Syst*; 15 February 2021; 14 pages; Vanderplanken K., van den Hazel P., Marx M., Zia Shams A., Guha-Sapir D., **van Loenhout J.A.F.**
24. Impact of Q-fever fatigue syndrome on patients' work status; *Occup Med*; 19 October 2020; 8 pages; Reukers D.F.M., **van Loenhout J.A.F.**, Roof I., Senden T., Keijmel S., Bleeker-Rovers C., van Jaarsveld C.H.M., Hautvast J.L.A., van der Velden K.
25. Measuring mental health burden in humanitarian settings: a critical review of assessment tools; *Glob Health Action*; 13 July 2020; 16 pages; Moore A., **van Loenhout J.A.F.**, de Almeida M.M., Smith P., Guha-Sapir D.
26. Objective cognitive performance and subjective complaints in patients with chronic Q fever or Q fever fatigue syndrome; *BMC Infect Dis*; 5 June 2020; 8 pages; Reukers D.F.M., Aaronson J., **van Loenhout J.A.F.**, Meyering B., van der Velden K., Hautvast J.L.A., van Jaarsveld C.H.M., Kessels R.P.C.
27. Impact of Recurrent Floods on the Utilization of Maternal and Newborn Healthcare in Bangladesh; *Matern Child Health J*; 13 April 2020; 11 pages; Baten A., Wallemacq P., **van Loenhout J.A.F.**, Guha-Sapir D.
28. Changes in patient admissions after the 2015 Earthquake: a tertiary hospital-based study in Kathmandu, Nepal; *Nature: Sci Rep*; 18 March 2020; 9 pages; Moitinho de Almeida M., Schlüter B.S., **van Loenhout J.A.F.**, Thapa S.S., Kumar K.C., Singh R., Guha-Sapir D., Mahara D.P.
29. Impact of mass vaccination campaigns on measles transmission during a nationwide outbreak in Guinea, 2017; *J Infect*, 1 March 2020; 6 pages; Linton N., Keita M., Moitinho De Almeida M., Gil Cuesta J., Guha-Sapir D., Nishiura H., **van Loenhout J.A.F.**
30. Medical Consultations After Typhoon Haiyan in a Field Hospital in the Philippines; *Disaster Med Public Health Prep*; 1 February 2020; 5 pages; Gil Cuesta J., **van Loenhout J.A.F.**, de Lara Banquesio M.L., Mustafa M., Guha-Sapir D.
31. Clinical and demographic profile of admitted victims in a tertiary hospital after the 2015 earthquake in Nepal; *PLoS One*; 18 July 2019; 13 pages; Moitinho de Almeida M., **van Loenhout J.A.F.**, Thapa S.S., Kumar K.C., Schlüter B.S., Singh R., Banse X., Putineanu D., Mahara D.P., Guha-Sapir D.
32. Explaining the long-term impact of chronic Q fever and Q fever fatigue syndrome on psychosocial functioning: A comparison with diabetes and the general population; *J Psychosom Res*; 1 June 2019; 8 pages; Reukers D.F.M., van Jaarsveld C.H.M., Knoop H., Bleeker-Rovers C.P., Akkermans R., de Grauw W., van der Velden K., **van Loenhout J.A.F.**, Hautvast J.L.A.
33. Delays in arrival and treatment in emergency departments: Women, children and non-trauma consultations the most at risk in humanitarian settings; *PLoS One*; 5 March 2019; 15 pages; Beltrán Guzmán I., Gil Cuesta J., Trelles M., Jaweed O., Cherestal S., **van Loenhout J.A.F.**, Guha-Sapir D.
34. The Impact of Typhoon Haiyan on Health Staff: A Qualitative Study in Two Hospitals in Eastern Visayas, The Philippines; *Front Public Health*; 31 August 2018; 6 pages; Gil Cuesta J., **van Loenhout J.A.F.**, de Lara-Banquesio M.L., Isiderio J.M., Aujoulat I., Guha-Sapir D.
35. The impact of Typhoon Haiyan on admissions in two hospitals in Eastern Visayas, Philippines; *PLoS One*; 30 January 2018; 12 pages; **van Loenhout J.A.F.**, Gil Cuesta J., Abello J.E., Isiderio J.M., de Lara-Banquesio M.L., Guha-Sapir D.
36. Heat and emergency room admissions in the Netherlands; *BMC Public Health*; 8 January 2018; 9

- pages; **van Loenhout J.A.F.**, Delbiso T.D., Kiriliouk A., Rodriguez-Llanes J.M., Segers J., Guha-Sapir D.
37. General population knowledge about extreme heat: a cross-sectional survey in Lisbon and Madrid; *Int J Environ Res Public Health*; 28 January 2017; 12 pages; Gil Cuesta J., **van Loenhout J.A.F.**, Colaço M.D., Guha-Sapir D.
  38. Barriers to surgical care in Nepal; *BMC Health Serv Res*; 23 January 2017; 9 pages; **van Loenhout J.A.F.**, Delbiso T.D., Gupta S., Amatya K., Kushner A.L., Gil Cuesta J., Guha-Sapir D.
  39. Maternal and child health of internally displaced persons in Ukraine: a qualitative study; *Int J Environ Res Public Health*; 9 January 2017; 13 pages; Nidzvetska S., Rodriguez-Llanes J.M., Aujoulat I., Gil Cuesta J., Tappis H., **van Loenhout J.A.F.**, Guha-Sapir D.
  40. How resilient is the general population to heatwaves? A knowledge survey from the ENHANCE project in Brussels and Amsterdam; [BMC Res Notes](#); 1 December 2016; 5 pages; **van Loenhout J.A.F.**, Guha-Sapir D.
  41. Stakeholders' Perception on National Heatwave Plans and Their Local Implementation in Belgium and The Netherlands; [Int J Environ Res Public Health](#); 10 November 2016; 14 pages; **van Loenhout J.A.F.**, Rodriguez-Llanes J.M., Guha-Sapir D.
  42. A retrospective analysis of oral cholera vaccine use, disease severity and deaths during an outbreak in South Sudan; *Bull World Health Organ*; 1 September 2016; 8 pages; Bekolo C.E., **van Loenhout J.A.F.**, Rodriguez-Llanes J.M., Rumunu J., Ramadan O.P., Guha-Sapir D.
  43. Changes in hospitalization for ischemic heart disease after the 2008 Sichuan Earthquake: 10 years of data in a population of 300,000; *Disaster Med Public Health Prep*; 1 April 2016; 8 pages; Huang K., Huang D., He D., **van Loenhout J.A.F.**, Liu W., Huang B., Deng X., Wu Q., Chen M., Guha-Sapir D.
  44. The effect of high indoor temperatures on self-perceived health of elderly persons; *Environ Res*; 1 April 2016; 8 pages; **van Loenhout J.A.F.**, le Grand A., Duijm F., Greven F., Vink N.M., Hoek G., Zuurbier M.
  45. Long-Term Serological Follow-Up of Acute Q-Fever Patients after a Large Epidemic; *PLoS One*; 10 July 2015; 15 pages; Wielders C.C., **van Loenhout J.A.F.**, Morroy G., Rietveld A., Notermans D.W., Wever P.C., Renders N.H., Leenders A.C., van der Hoek W., Schneeberger P.M.
  46. Q-fever patients suffer from impaired health status long after the acute phase of the illness: results from a 24-month cohort study; *J Infect*; 1 March 2015; 10 pages; **van Loenhout J.A.F.**, Hautvast J.L., Vercoulen J.H., Akkermans R.P., Wijkmans C.J., van der Velden K., Paget W.J.
  47. Work participation in Q-fever patients and patients with Legionnaires' disease: a 12 month cohort study; *Scand J Public Health*; 27 February 2015; 8 pages; **van Loenhout J.A.F.**, Hautvast J.L., Akkermans R.P., Donders N.C., Vercoulen J.H., Paget W.J., van der Velden K.
  48. Severely impaired health status of non-notified Q-fever patients leads to an underestimation of the true burden of disease; *Epidemiol Infect*; 13 January 2015; 8 pages; **van Loenhout J.A.F.**, Wielders C.C., Morroy G., Cox M.J., van der Hoek W., Hautvast J.L., Paget W.J., van der Velden J.
  49. Serious long-term health consequences of Q-fever and Legionnaires' disease; *J Infect*; 1 June 2014; 7 pages; **van Loenhout J.A.F.**, van Tiel H.H., van den Heuvel J., Vercoulen J.H., Bor H., van der Velden K., Paget W.J., Hautvast J.L.
  50. A cross-sectional study to assess the long-term health status of patients with lower respiratory tract infections, including Q-fever; *Epidemiol Infect*; 14 March 2014; 10 pages; van Dam A.S., **van Loenhout J.A.F.**, Peters J.B., Rietveld A., Paget W.J., Akkermans R.P., Olde Loohuis A., Hautvast J.L., van der Velden J.
  51. Assessing health status and quality of life of Q-fever patients: the Nijmegen Clinical Screening Instrument versus the Short Form 36; *Health Qual Life Outcomes*; 4 July 2013; 5 pages; **van Loenhout J.A.F.**, Paget W.J., Sandker G.W., Hautvast J.L., van der Velden K., Vercoulen J.H.
  52. Assessing the long-term health impact of Q-fever in the Netherlands: a prospective cohort study started in 2007 on the largest documented Q-fever outbreak to date; *BMC Infect Dis*; 30 October 2012; 6 pages; **van Loenhout J.A.F.**, Paget W.J., Vercoulen J.H., Wijkmans C.J., Hautvast J.L., van der Velden K.

## Projects

**EU interoperability with HERA's IT platform (EU-HIP)**, GA number 101102774

Project responsible on behalf of Sciensano

- WP lead of WP5: Focus on specific technical needs
- Co-task leader of task 4.1: Landscape analysis – Digital ecosystem for health crisis preparedness and response
- Responsible in Belgium for automatic extraction of laboratory test results and improved infectious disease surveillance by linking existing registers

## Memberships

## Other Relevant Information