Christel Faes

List of Publications by Year in Descending Order

138 papers	**2,490** citations	**26** h-index	**45** g-index
158 ext. papers	**3,111** ext. citations	**3.3** avg, IF	**5.23** L-index

#	Paper	IF	Citations
138	COVID-19 mortality, excess mortality, deaths per million and infection fatality ratio, Belgium, 9 March 2020 to 28 June 2020.. *Eurosurveillance*, **2022**, 27,	19.8	4
137	The COVID-19 wave in Belgium during the Fall of 2020 and its association with higher education.. *PLoS ONE*, **2022**, 17, e0264516	3.7	0
136	Inferring age-specific differences in susceptibility to and infectiousness upon SARS-CoV-2 infection based on Belgian social contact data.. *PLoS Computational Biology*, **2022**, 18, e1009965	5	1
135	The influence of risk perceptions on close contact frequency during the SARS-CoV-2 pandemic.. *Scientific Reports*, **2022**, 12, 5192	4.9	1
134	HIV risk factors among adolescent and young adults: A geospatial-temporal analysis of Mozambique AIDS indicator survey data. *Spatial and Spatio-temporal Epidemiology*, **2022**, 41, 100499	3.5	
133	A linear mixed model to estimate COVID-19-induced excess mortality. *Biometrics*, **2021**,	1.8	4
132	Leveraging of SARS-CoV-2 PCR Cycle Thresholds Values to Forecast COVID-19 Trends. *Frontiers in Medicine*, **2021**, 8, 743988	4.9	3
131	On realized serial and generation intervals given control measures: The COVID-19 pandemic case. *PLoS Computational Biology*, **2021**, 17, e1008892	5	3
130	The impact of contact tracing and household bubbles on deconfinement strategies for COVID-19. *Nature Communications*, **2021**, 12, 1524	17.4	30
129	A data-driven metapopulation model for the Belgian COVID-19 epidemic: assessing the impact of lockdown and exit strategies. *BMC Infectious Diseases*, **2021**, 21, 503	4	12
128	Multi-population stochastic modeling of Ebola in Sierra Leone: Investigation of spatial heterogeneity. *PLoS ONE*, **2021**, 16, e0250765	3.7	
127	Childhood leukemia near nuclear sites in Belgium: An ecological study at small geographical level. *Cancer Epidemiology*, **2021**, 72, 101910	2.8	
126	The (in)stability of Bayesian model selection criteria in disease mapping. *Spatial Statistics*, **2021**, 43, 100502	2.2	1
125	Modelling the early phase of the Belgian COVID-19 epidemic using a stochastic compartmental model and studying its implied future trajectories. *Epidemics*, **2021**, 35, 100449	5.1	20
124	The secondary transmission pattern of COVID-19 based on contact tracing in Rwanda. *BMJ Global Health*, **2021**, 6,	6.6	5
123	Bayesian pooling versus sequential integration of small preclinical trials: a comparison within linear and nonlinear modeling frameworks. *Journal of Biopharmaceutical Statistics*, **2021**, 31, 25-36	1.3	
122	SOCRATES-CoMix: a platform for timely and open-source contact mixing data during and in between COVID-19 surges and interventions in over 20 European countries. *BMC Medicine*, **2021**, 19, 254	11.4	5

121	On the timing of interventions to preserve hospital capacity: lessons to be learned from the Belgian SARS-CoV-2 pandemic in 2020. *Archives of Public Health*, **2021**, 79, 164	2.6	2
120	Spatial Distribution of HIV Prevalence among Young People in Mozambique. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	6
119	Estimating the generation interval for coronavirus disease (COVID-19) based on symptom onset data, March 2020. *Eurosurveillance*, **2020**, 25,	19.8	313
118	Thyroid cancer incidence near nuclear sites in Belgium: An ecological study at small geographical level. *International Journal of Cancer*, **2020**, 146, 3034-3043	7.5	2
117	Bayesian spatio-temporal modeling of malaria risk in Rwanda. *PLoS ONE*, **2020**, 15, e0238504	3.7	5
116	Time between Symptom Onset, Hospitalisation and Recovery or Death: Statistical Analysis of Belgian COVID-19 Patients. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	84
115	Quantitative Microbial Risk Assessment Based on Whole Genome Sequencing Data: Case of. *Microorganisms*, **2020**, 8,	4.9	3
114	Infectious diseases epidemiology, quantitative methodology, and clinical research in the midst of the COVID-19 pandemic: Perspective from a European country. *Contemporary Clinical Trials*, **2020**, 99, 106189	2.3	2
113	On the impact of residential history in the spatial analysis of diseases with a long latency period: A study of mesothelioma in Belgium. *Statistics in Medicine*, **2020**, 39, 3840-3866	2.3	3
112	On the choice of the mesh for the analysis of geostatistical data using R-INLA. *Communications in Statistics - Theory and Methods*, **2020**, 49, 203-220	0.5	4
111	Inference of the generalized-growth model via maximum likelihood estimation: A reflection on the impact of overdispersion. *Journal of Theoretical Biology*, **2020**, 484, 110029	2.3	8
110	Marginalized models for right-truncated and interval-censored time-to-event data. *Journal of Biopharmaceutical Statistics*, **2019**, 29, 1043-1067	1.3	1
109	Spatial smoothing models to deal with the complex sampling design and nonresponse in the Florida BRFSS survey. *Spatial and Spatio-temporal Epidemiology*, **2019**, 29, 59-70	3.5	1
108	Bayesian sequential integration within a preclinical pharmacokinetic and pharmacodynamic modeling framework: Lessons learned. *Pharmaceutical Statistics*, **2019**, 18, 486-506	1	1
107	Comparison of different software implementations for spatial disease mapping. *Spatial and Spatio-temporal Epidemiology*, **2019**, 31, 100302	3.5	4
106	Mapping species richness using opportunistic samples: a case study on ground-floor bryophyte species richness in the Belgian province of Limburg. *Scientific Reports*, **2019**, 9, 19122	4.9	5
105	Predicting weed invasion in a sugarcane cultivar using multispectral image. *Journal of Applied Statistics*, **2019**, 46, 1-12	1	9
104	Integrated nested Laplace approximation for the analysis of count data via the combined model: A simulation study. *Communications in Statistics Part B: Simulation and Computation*, **2019**, 48, 819-836	0.6	2

103	Burden and Risk Assessment of Foodborne Parasites **2018**, 341-365		
102	Spatially-dependent Bayesian model selection for disease mapping. *Statistical Methods in Medical Research*, **2018**, 27, 250-268	2.3	4
101	A Bayesian K-PD model for synergy: A case study. *Pharmaceutical Statistics*, **2018**, 17, 674-684	1	4
100	Assessing the relationship between epidemic growth scaling and epidemic size: The 2014-16 Ebola epidemic in West Africa. *Epidemiology and Infection*, **2018**, 147, e27	4.3	4
99	Response to comments on "Marginalized multilevel hurdle and zero-inflated models for overdispersed and correlated count data with excess zeros". *Statistics in Medicine*, **2018**, 37, 1942-1946	2.3	
98	Space-time variation of respiratory cancers in South Carolina: a flexible multivariate mixture modeling approach to risk estimation. *Annals of Epidemiology*, **2017**, 27, 42-51	6.4	6
97	Estimating the spatial covariance structure using the geoadditive model. *Environmental and Ecological Statistics*, **2017**, 24, 341-361	2.2	3
96	Structural differences in mixing behavior informing the role of asymptomatic infection and testing symptom heritability. *Mathematical Biosciences*, **2017**, 285, 43-54	3.9	8
95	Using additive and coupled spatiotemporal SPDE models: a flexible illustration for predicting occurrence of Culicoides species. *Spatial and Spatio-temporal Epidemiology*, **2017**, 23, 11-34	3.5	2
94	Spatiotemporal multivariate mixture models for Bayesian model selection in disease mapping. *Environmetrics*, **2017**, 28, e2465	1.3	8
93	Spatial small area smoothing models for handling survey data with nonresponse. *Statistics in Medicine*, **2017**, 36, 3708-3745	2.3	11
92	Two-stage model for multivariate longitudinal and survival data with application to nephrology research. *Biometrical Journal*, **2017**, 59, 1204-1220	1.5	6
91	Models for zero-inflated, correlated count data with extra heterogeneity: when is it too complex?. *Statistics in Medicine*, **2017**, 36, 345-361	2.3	4
90	Disease mapping of zero-excessive mesothelioma data in Flanders. *Annals of Epidemiology*, **2017**, 27, 59-66.e3	6.4	13
89	Cross-covariance functions for additive and coupled joint spatiotemporal SPDE models in R-INLA. *Environmental and Ecological Statistics*, **2017**, 24, 551-586	2.2	2
88	Extensions to Multivariate Space Time Mixture Modeling of Small Area Cancer Data. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	7
87	Local influence diagnostics for hierarchical count data models with overdispersion and excess zeros. *Biometrical Journal*, **2016**, 58, 1390-1408	1.5	6
86	Model-based inference for small area estimation with sampling weights. *Spatial Statistics*, **2016**, 18, 455-473	4.7	16

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85	Spatio-temporal Bayesian model selection for disease mapping. *Environmetrics*, **2016**, 27, 466-478	1.3	7
84	Model averaging quantiles from data censored by a limit of detection. *Biometrical Journal*, **2016**, 58, 331-56	1.5	0
83	Bayesian model selection methods in modeling small area colon cancer incidence. *Annals of Epidemiology*, **2016**, 26, 43-9	6.4	3
82	Spatiotemporal Evolution of Ebola Virus Disease at Sub-National Level during the 2014 West Africa Epidemic: Model Scrutiny and Data Meagreness. *PLoS ONE*, **2016**, 11, e0147172	3.7	27
81	The bivariate combined model for spatial data analysis. *Statistics in Medicine*, **2016**, 35, 3189-202	2.3	2
80	Serological diagnosis of bovine neosporosis: a Bayesian evaluation of two antibody ELISA tests for in vivo diagnosis in purchased and abortion cattle. *Veterinary Record*, **2015**, 176, 598	0.9	3
79	Comparing INLA and OpenBUGS for hierarchical Poisson modeling in disease mapping. *Spatial and Spatio-temporal Epidemiology*, **2015**, 14-15, 45-54	3.5	48
78	The social contact hypothesis under the assumption of endemic equilibrium: Elucidating the transmission potential of VZV in Europe. *Epidemics*, **2015**, 11, 14-23	5.1	24
77	Presence of antimicrobial resistance and antimicrobial use in sows are risk factors for antimicrobial resistance in their offspring. *Microbial Drug Resistance*, **2015**, 21, 50-8	2.9	39
76	Flexible modelling of simultaneously interval censored and truncated time-to-event data. *Pharmaceutical Statistics*, **2015**, 14, 311-21	1	1
75	Multi-disease analysis of maternal antibody decay using non-linear mixed models accounting for censoring. *Statistics in Medicine*, **2015**, 34, 2858-71	2.3	3
74	Animal Ownership and Touching Enrich the Context of Social Contacts Relevant to the Spread of Human Infectious Diseases. *PLoS ONE*, **2015**, 10, e0133461	3.7	12
73	A joint model for hierarchical continuous and zero-inflated overdispersed count data. *Journal of Statistical Computation and Simulation*, **2015**, 85, 552-571	0.9	11
72	Parametric and semi-nonparametric model strategies for the estimation of distributions of chemical contaminant data. *Environmental and Ecological Statistics*, **2015**, 22, 423-444	2.2	1
71	Exploring cattle movements in Belgium. *Preventive Veterinary Medicine*, **2014**, 116, 89-101	3.1	5
70	A zero-inflated overdispersed hierarchical Poisson model. *Statistical Modelling*, **2014**, 14, 439-456	0.7	12
69	On the estimation of the reproduction number based on misreported epidemic data. *Statistics in Medicine*, **2014**, 33, 1176-92	2.3	19
68	Marginalized multilevel hurdle and zero-inflated models for overdispersed and correlated count data with excess zeros. *Statistics in Medicine*, **2014**, 33, 4402-19	2.3	25

67	Cross nearest-spike interval based method to measure synchrony dynamics. *Mathematical Biosciences and Engineering*, **2014**, 11, 27-48	2.1	2
66	Joint Modelling for Longitudinal and Time-to-Event Data: Application to Liver Transplantation Data. *Lecture Notes in Computer Science*, **2014**, 580-593	0.9	
65	Bluetongue surveillance system in Belgium: a stochastic evaluation of its risk-based approach effectiveness. *Preventive Veterinary Medicine*, **2013**, 112, 48-57	3.1	6
64	A Bayesian, generalized frailty model for comet assays. *Journal of Biopharmaceutical Statistics*, **2013**, 23, 618-36	1.3	1
63	Factors affecting Bluetongue serotype 8 spread in Northern Europe in 2006: the geographical epidemiology. *Preventive Veterinary Medicine*, **2013**, 110, 149-58	3.1	16
62	Establishment of reference values for novel urinary biomarkers for renal damage in the healthy population: are age and gender an issue?. *Clinical Chemistry and Laboratory Medicine*, **2013**, 51, 1795-802	5.9	56
61	Eight years of the Great Influenza Survey to monitor influenza-like illness in Flanders. *PLoS ONE*, **2013**, 8, e64156	3.7	31
60	A dynamic spatio-temporal model to investigate the effect of cattle movements on the spread of bluetongue BTV-8 in Belgium. *PLoS ONE*, **2013**, 8, e78591	3.7	13
59	A generalized Poisson-gamma model for spatially overdispersed data. *Spatial and Spatio-temporal Epidemiology*, **2012**, 3, 185-94	3.5	17
58	Joint modeling of hierarchically clustered and overdispersed non-gaussian continuous outcomes for comet assay data. *Pharmaceutical Statistics*, **2012**, 11, 449-55	1	2
57	Modeling overdispersed longitudinal binary data using a combined beta and normal random-effects model. *Archives of Public Health*, **2012**, 70, 7	2.6	10
56	Testing goodness of fit of parametric models for censored data. *Statistics in Medicine*, **2012**, 31, 2374-85	2.3	10
55	European Surveillance of Antimicrobial Consumption (ESAC): outpatient cephalosporin use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2012**, 67, 518-518	5.1	2
54	Estimating the population prevalence and force of infection directly from antibody titres. *Statistical Modelling*, **2012**, 12, 441-462	0.7	18
53	Modeling Infectious Disease Parameters Based on Serological and Social Contact Data **2012**,		63
52	Development of statistical methods for the evaluation of data on antimicrobial resistance in bacterial isolates from animals and food. *EFSA Supporting Publications*, **2011**, 8, 186E	1.1	6
51	Variation in cancer incidence in northeastern Belgium and southeastern Netherlands seems unrelated to cadmium emission of zinc smelters. *European Journal of Cancer Prevention*, **2011**, 20, 549-55	2	8
50	Estimating herd prevalence on the basis of aggregate testing of animals. *Journal of the Royal Statistical Society Series A: Statistics in Society*, **2011**, 174, 155-174	2.1	4

49	Assessing neural activity related to decision-making through flexible odds ratio curves and their derivatives. *Statistics in Medicine*, **2011**, 30, 1695-711	2.3	2
48	Variational Bayesian Inference for Parametric and Nonparametric Regression With Missing Data. *Journal of the American Statistical Association*, **2011**, 106, 959-971	2.8	38
47	European Surveillance of Antimicrobial Consumption (ESAC): outpatient antibiotic use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi3-12	5.1	154
46	European Surveillance of Antimicrobial Consumption (ESAC): outpatient macrolide, lincosamide and streptogramin (MLS) use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi37-45	5.1	27
45	European Surveillance of Antimicrobial Consumption (ESAC): outpatient penicillin use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi13-23	5.1	19
44	The impact of traffic air pollution on bronchiolitis obliterans syndrome and mortality after lung transplantation. *Thorax*, **2011**, 66, 748-54	7.3	66
43	European Surveillance of Antimicrobial Consumption (ESAC): outpatient cephalosporin use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi25-35	5.1	26
42	European Surveillance of Antimicrobial Consumption (ESAC): outpatient quinolone use in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi47-56	5.1	75
41	European Surveillance of Antimicrobial Consumption (ESAC): outpatient use of tetracyclines, sulphonamides and trimethoprim, and other antibacterials in Europe (1997-2009). *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi57-70	5.1	30
40	Does air pollution trigger infant mortality in Western Europe? A case-crossover study. *Environmental Health Perspectives*, **2011**, 119, 1017-22	8.4	41
39	Analysing the composition of outpatient antibiotic use: a tutorial on compositional data analysis. *Journal of Antimicrobial Chemotherapy*, **2011**, 66 Suppl 6, vi89-94	5.1	25
38	Seventy-five years of estimating the force of infection from current status data. *Epidemiology and Infection*, **2010**, 138, 802-12	4.3	68
37	Effect of pH on the stability of kidney injury molecule 1 (KIM-1) and on the accuracy of its measurement in human urine. *Clinica Chimica Acta*, **2010**, 411, 2083-6	6.2	9
36	Modeling spatial learning in rats based on Morris water maze experiments. *Pharmaceutical Statistics*, **2010**, 9, 10-20	1	15
35	Identification of risk factors for the prevalence and persistence of Salmonella in Belgian broiler chicken flocks. *Preventive Veterinary Medicine*, **2009**, 90, 211-22	3.1	30
34	Application of penalized splines in analyzing neuronal data. *Biometrical Journal*, **2009**, 51, 203-16	1.5	2
33	Reduction in hormone replacement therapy use and declining breast cancer incidence in the Belgian province of Limburg. *Breast Cancer Research and Treatment*, **2009**, 118, 425-32	4.4	24
32	The Effective Sample Size and an Alternative Small-Sample Degrees-of-Freedom Method. *American Statistician*, **2009**, 63, 389-399	5	55

31	Miscoding: a threat to the hospital care system. How to detect it?. *Revue D'Epidemiologie Et De Sante Publique*, **2009**, 57, 169-77	0.6	7
30	Spatial analysis of breast and cervical cancer incidence in small geographical areas in Cuba, 1999-2003. *European Journal of Cancer Prevention*, **2009**, 18, 395-403	2	12
29	Human salmonellosis: estimation of dose-illness from outbreak data. *Risk Analysis*, **2008**, 28, 427-40	3.9	39
28	Model averaging in microbial risk assessment using fractional polynomials. *Risk Analysis*, **2008**, 28, 891-905	3.9	18
27	Establishing the spread of bluetongue virus at the end of the 2006 epidemic in Belgium. *Veterinary Microbiology*, **2008**, 131, 133-44	3.3	38
26	Salmonella in Belgian laying hens: an identification of risk factors. *Preventive Veterinary Medicine*, **2008**, 83, 323-36	3.1	68
25	Impact of human interventions on the spread of bluetongue virus serotype 8 during the 2006 epidemic in north-western Europe. *Preventive Veterinary Medicine*, **2008**, 87, 145-61	3.1	21
24	A Flexible Method to Measure Synchrony in Neuronal Firing. *Journal of the American Statistical Association*, **2008**, 103, 149-161	2.8	15
23	Application of semiparametric mixed models and simultaneous confidence bands in a cardiovascular safety experiment with longitudinal data. *Journal of Biopharmaceutical Statistics*, **2008**, 18, 1043-62	1.3	9
22	A high-dimensional joint model for longitudinal outcomes of different nature. *Statistics in Medicine*, **2008**, 27, 4408-27	2.3	20
21	Analysis of cross-over designs with serial correlation within periods using semi-parametric mixed models. *Statistics in Medicine*, **2008**, 27, 6009-33	2.3	7
20	Chronic exposure of mice to environmentally relevant, low doses of cadmium leads to early renal damage, not predicted by blood or urine cadmium levels. *Toxicology*, **2007**, 229, 145-56	4.4	110
19	Model averaging using fractional polynomials to estimate a safe level of exposure. *Risk Analysis*, **2007**, 27, 111-23	3.9	50
18	Handling missingness when modeling the force of infection from clustered seroprevalence data. *Journal of Agricultural, Biological, and Environmental Statistics*, **2007**, 12, 498-513	1.9	4
17	Estimation of the Force of Infection from Current Status Data Using Generalized Linear Mixed Models. *Journal of Applied Statistics*, **2007**, 34, 923-939	1	4
16	On the use of historical control data in pre-clinical safety studies. *Journal of Biopharmaceutical Statistics*, **2007**, 17, 493-509	1.3	6
15	GLMM approach to study the spatial and temporal evolution of spikes in the small intestine. *Statistical Modelling*, **2006**, 6, 300-320	0.7	3
14	Flexible modelling of neuron firing rates across different experimental conditions: an application to neural activity in the prefrontal cortex during a discrimination task. *Journal of the Royal Statistical Society Series C: Applied Statistics*, **2006**, 55, 431-447	1.5	6

List of Publications

13	Estimating herd-specific force of infection by using random-effects models for clustered binary data and monotone fractional polynomials. *Journal of the Royal Statistical Society Series C: Applied Statistics*, **2006**, 55, 595-613	1.5	10
12	A hierarchical modeling approach for risk assessment in developmental toxicity studies. *Computational Statistics and Data Analysis*, **2006**, 51, 1848-1861	1.6	12
11	Element profiles and growth in Zn-sensitive and Zn-resistant Suilloid fungi. *Mycorrhiza*, **2005**, 15, 628-634	1.9	27
10	The denominator in general practice, a new approach from the Intego database. *Family Practice*, **2005**, 22, 442-7	1.9	46
9	Spatial determination of successive spikes in the isolated cat duodenum. *Neurogastroenterology and Motility*, **2004**, 16, 775-83	4	4
8	Modeling combined continuous and ordinal outcomes in a clustered setting. *Journal of Agricultural, Biological, and Environmental Statistics*, **2004**, 9, 515-530	1.9	8
7	Bayesian testing for trend in a power model for clustered binary data. *Environmental and Ecological Statistics*, **2004**, 11, 305-322	2.2	7
6	Use of fractional polynomials for dose-response modelling and quantitative risk assessment in developmental toxicity studies. *Statistical Modelling*, **2003**, 3, 109-125	0.7	16
5	Belgian COVID-19 Mortality, Excess Deaths, Number of Deaths per Million, and Infection Fatality Rates (8 March - 9 May 2020)		19
4	Modeling the early phase of the Belgian COVID-19 epidemic using a stochastic compartmental model and studying its implied future trajectories		14
3	The impact of contact tracing and household bubbles on deconfinement strategies for COVID-19: an individual-based modelling study		10
2	Time between Symptom Onset, Hospitalisation and Recovery or Death: a Statistical Analysis of Different Time-Delay Distributions in Belgian COVID-19 Patients		7
1	A data-driven metapopulation model for the Belgian COVID-19 epidemic: assessing the impact of lockdown and exit strategies		7