

Grigorios Papageorgiou

Biostatistician | Postdoctoral Researcher

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Professional Experience

2022 - Present	Statistics Leader GSK
2021 - 2022	Postdoctoral Researcher in Biostatistics Department of Biostatistics, Erasmus University Medical Center
2021 - 2022	Methodological & Statistical Assessor College ter Beoordeling van Geneesmiddelen
2019 - 2022	Statistical Consultant Department of Internal Medicine, Erasmus University Medical Center
2019 - 2021	Education Design Assistant NIHES Innovation Team, Erasmus University Medical Center
2015 - 2022	Statistical Consultant Consultation centre for Patient-Oriented research, Erasmus University Medical Center
2015 - 2021	PhD Researcher in Biostatistics Department of Biostatistics, Erasmus University Medical Center
2015 - 2019	Statistical Consultant Department of Cardio-Thoracic Surgery, Erasmus University Medical Center
2015	R Tutor LStat, KU LEUVEN, VIB
2014	Statistical Consultant LStat, KU LEUVEN

Education

2015 - 2021	PhD in Biostatistics Department of Biostatistics, Erasmus University Medical Center
2013 - 2015	MSc in Statistics Katholieke Universiteit Leuven, Leuven, Belgium
2006 - 2011	BSc in Statistics and Insurance Science University of Piraeus, Piraeus, Greece

Research Focus

Joint Models for Longitudinal and Time-to-Event Data

Mixed-effects models

Survival Analysis

Multi-state Models

Dynamic Prediction

Missing Data

Statistical Software Development

JMbayes2	co-developer Extended Joint Models for Longitudinal and Survival Data
JMbayes	co-developer Fits joint models for continuous longitudinal responses and time-to-event data. I developed functionality for dynamic prediction of survival from multivariate joint models. I also developed functionality for joint models for multivariate longitudinal data and multi-state processes.
rQuote	Developer Extracts quotes from the web with web-scraping based on topics of interest.

International Conferences

2020	41st ISCB, Krakow, Poland An Alternative Characterization of Missing at Random in Shared Parameter Models
2019	40th ISCB, Leuven, Belgium Feature selection of longitudinal biomarkers in multi-variate joint models for longitudinal and multi-state processes
2018	29th IBS, Barcelona, Spain Feature selection of longitudinal biomarkers in multi-variate joint models for longitudinal and multi-state processes
2017	38th ISCB, Vigo, Spain Individualized Dynamic Prediction of Survival with the Presence of Intermediate Events
2017	9th EMR, Thessaloniki, Greece Individualized Dynamic Prediction of Survival with the Presence of Intermediate Events

Peer Review for International Scientific Journals

Biometrics

Journal of Statistical Software

Biometrical Journal

Statistics in Medicine

Statistical Methods in Medical Research

Statistica Sinica

Pharmaceutical Statistics

Diagnostic and Prognostic Research

Committees

2022 - 2025

IBC: Awards Fund Committee

Programming Languages & Statistical Software Skills

Fluent

R, C++, Markdown, \LaTeX

Intermediate

SAS, Stan, HTML, CSS

List of Publications

1. S. Geurts, C. Brunborg, **Papageorgiou, G.**, M.A. Ikram, and M. Kavousi. "Subclinical Measures of Peripheral Atherosclerosis and the Risk of New-Onset Atrial Fibrillation in the General Population: the Rotterdam Study". In: *Journal of the American Heart Association* 11.1 (2022). doi: [10.1161/JAHA.121.023967](https://doi.org/10.1161/JAHA.121.023967).
2. A. Gharbharan, C.C.E. Jordans, C. GeurtsvanKessel, J.G. den Hollander, F. Karim, F.P.N. Mollema, J.E. Stalenhoef – Schukken, A. Dofferhoff, I. Ludwig, A. Koster, R.-J. Hassing, J.C. Bos, G.R. van Pottelberge, I.N. Vlasveld, H.S.M. Ammerlaan, E.M. van Leeuwen – Segarceanu, J. Miedema, M. van der Eerden, T.J. Schrama, **Papageorgiou, G.**, P. te Boekhorst, F.H. Swaneveld, Y.M. Mueller, M.W.J. Schreurs, J.J.A. van Kampen, B. Rockx, N.M.A. Okba, P.D. Katsikis, M.P.G. Koopmans, B.L. Haagmans, C. Rokx, and B.J.A. Rijnders. "Effects of potent neutralizing antibodies from convalescent plasma in patients hospitalized for severe SARS-CoV-2 infection". In: *Nature Communications* 12.1 (2021). doi: [10.1038/s41467-021-23469-2](https://doi.org/10.1038/s41467-021-23469-2).
3. L. Horn, L. De Munter, **Papageorgiou, G.**, K.W.W. Lansink, M.A.C. De Jongh, and M.C.W. Joosen. "Association of longitudinal changes in patient-reported health status with return to work in the first 2 years after traumatic injury: A prospective cohort study in the Netherlands". In: *BMJ Open* 11.12 (2021). doi: [10.1136/bmjopen-2021-055593](https://doi.org/10.1136/bmjopen-2021-055593).
4. E. Huizing, M.A. Schreve, S. Kum, **Papageorgiou, G.**, J.-P.P.M. de Vries, G.J. de Borst, and Ç. Ünlü. "Development of a Prediction Model for the Occurrence of Stenosis or Occlusion after Percutaneous Deep Venous Arterialization". In: *Diagnostics* 11.6 (2021). doi: [10.3390/diagnostics11061008](https://doi.org/10.3390/diagnostics11061008).
5. J.L.R. Romeo, **Papageorgiou, G.**, F.F.D. Da Costa, H.H. Sievers, A.J.J.C. Bogers, I. El-Hamamsy, P.D. Skillington, R. Wynne, S. Mastrobuoni, G. El Khoury, J.J.M. Takkenberg, and M.M. Mokhles. "Long-term Clinical and Echocardiographic Outcomes in Young and Middle-aged Adults Undergoing the Ross Procedure". In: *JAMA Cardiology* 6.5 (2021), pp. 539–548. doi: [10.1001/jamacardio.2020.7434](https://doi.org/10.1001/jamacardio.2020.7434).
6. A. Schauwvlieghe, A. Dunbar, E. Storme, A. Vlak, R. Aerts, J. Maertens, B. Sciot, T. Van Der Wel, **Papageorgiou, G.**, I. Moors, J.J. Cornelissen, B.J.A. Rijnders, and T. Mercier. "Stopping antibiotic therapy after 72 h in patients with febrile neutropenia following intensive chemotherapy for AML/MDS (safe study): A retrospective comparative cohort study". In: *EClinicalMedicine* 35 (2021). doi: [10.1016/j.eclim.2021.100855](https://doi.org/10.1016/j.eclim.2021.100855).
7. W.M.A. van der Slot, J.L. Benner, L. Brunton, J.M. Engel, P. Gallien, S.R. Hilberink, G. Månun, P. Morgan, A. Opheim, I. Riquelme, E. Rodby-Bousquet, T.T. Şimşek, D.E. Thorpe, R.J.G. van den Berg-Emons, L.K. Vogtle, **Papageorgiou, G.**, and M.E. Roebroek. "Pain in adults with cerebral palsy: A systematic review and meta-analysis of individual participant data". In: *Annals of Physical and Rehabilitation Medicine* 64.3 (2021). doi: [10.1016/j.rehab.2019.12.011](https://doi.org/10.1016/j.rehab.2019.12.011).
8. **Papageorgiou, G.** and D. Rizopoulos. "An alternative characterization of MAR in shared parameter models for incomplete longitudinal data and its utilization for sensitivity analysis". In: *Statistical Modelling* 21.1-2 (2021), pp. 95–114. doi: [10.1177/1471082X20927114](https://doi.org/10.1177/1471082X20927114).
9. D. Abjigitova, M.M. Mokhles, **Papageorgiou, G.**, J.A. Bekkers, and A.J.J.C. Bogers. "Outcomes of different aortic arch replacement techniques". In: *Journal of Cardiac Surgery* 35.2 (2020), pp. 367–374. doi: [10.1111/jocs.14386](https://doi.org/10.1111/jocs.14386).
10. J.L.R. Romeo, **Papageorgiou, G.**, J.J.M. Takkenberg, J.W. Roos-Hesselink, W.J. van Leeuwen, J.M.J. Cornette, D. Rizopoulos, A.J.J.C. Bogers, and M.M. Mokhles. "Influence of pregnancy on long-term durability of allografts in right ventricular outflow tract". In: *Journal of Thoracic and Cardiovascular Surgery* 159.4 (2020), 1508–1516.e1. doi: [10.1016/j.jtcvs.2019.08.083](https://doi.org/10.1016/j.jtcvs.2019.08.083).
11. V. Wester, S. de Groot, T. Kanters, L. Wagner, J. Ardesch, I. Corro Ramos, M.-J. Enders-Slegers, M. de Ruiter, S. le Cessie, J. Los, **Papageorgiou, G.**, J. van Exel, and M. Versteegh. "Evaluating the Effectiveness and Cost-Effectiveness of Seizure Dogs in Persons With Medically Refractory Epilepsy in the Netherlands: Study Protocol for a Stepped Wedge Randomized Controlled Trial (EPISODE)". In: *Frontiers in Neurology* 11 (2020). doi: [10.3389/fneur.2020.00003](https://doi.org/10.3389/fneur.2020.00003).

12. J.M. Colijn et al. "Increased High-Density Lipoprotein Levels Associated with Age-Related Macular Degeneration: Evidence from the EYE-RISK and European Eye Epidemiology Consortia". In: *Ophthalmology* 126.3 (2019), pp. 393–406. doi: [10.1016/j.ophtha.2018.09.045](https://doi.org/10.1016/j.ophtha.2018.09.045).
13. J.R.G. Etnel, S.A. Huygens, P. Grashuis, B. Pekbay, **Papageorgiou, G.**, J.W. Roos Hesselink, A.J.J.C. Bogers, and J.J.M. Takkenberg. "Bioprosthetic aortic valve replacement in nonelderly adults: A systematic review, meta-analysis, and microsimulation". In: *Circulation: Cardiovascular Quality and Outcomes* 12.2 (2019). doi: [10.1161/CIRCOUTCOMES.118.005481](https://doi.org/10.1161/CIRCOUTCOMES.118.005481).
14. W.G. Knol, **Papageorgiou, G.**, and M.M. Mokhles. "What to do with the equipoise?" In: *European Heart Journal* 40.22 (2019), p. 1815. doi: [10.1093/eurheartj/ehz176](https://doi.org/10.1093/eurheartj/ehz176).
15. S.C. Rigters, M.P. Van Der Schroeff, **Papageorgiou, G.**, R.J. Baatenburg De Jong, and A. Goedegebure. "Progression of hearing loss in the aging population: Repeated auditory measurements in the Rotterdam study". In: *Audiology and Neurotology* 23.5 (2019), pp. 290–297. doi: [10.1159/000492203](https://doi.org/10.1159/000492203).
16. **Papageorgiou, G.**, K. Mauff, A. Tomer, and D. Rizopoulos. "An overview of joint modeling of time-to-event and longitudinal outcomes". In: *Annual Review of Statistics and Its Application* 6 (2019), pp. 223–240. doi: [10.1146/annurev-statistics-030718-105048](https://doi.org/10.1146/annurev-statistics-030718-105048).
17. **Papageorgiou, G.**, M.M. Mokhles, J.J.M. Takkenberg, and D. Rizopoulos. "Individualized dynamic prediction of survival with the presence of intermediate events". In: *Statistics in Medicine* 38.30 (2019), pp. 5623–5640. doi: [10.1002/sim.8387](https://doi.org/10.1002/sim.8387).
18. J.R.G. Etnel, P. Grashuis, S.A. Huygens, B. Pekbay, **Papageorgiou, G.**, W.A. Helbing, J.W. Roos Hesselink, A.J.J.C. Bogers, M.M. Mokhles, and J.J.M. Takkenberg. "The Ross Procedure: A Systematic Review, Meta-Analysis, and Microsimulation". In: *Circulation. Cardiovascular quality and outcomes* 11.12 (2018), e004748. doi: [10.1161/CIRCOUTCOMES.118.004748](https://doi.org/10.1161/CIRCOUTCOMES.118.004748).
19. S.J. Head, M. Milojevic, J. Daemen, J.-M. Ahn, E. Boersma, E.H. Christiansen, M.J. Domanski, M.E. Farkouh, M. Flather, V. Fuster, M.A. Hlatky, N.R. Holm, W.A. Hueb, M. Kamalesh, Y.-H. Kim, T. Mäkilä, F.W. Mohr, **Papageorgiou, G.**, S.-J. Park, A.E. Rodriguez, J.F. Sabik, R.H. Stables, G.W. Stone, P.W. Serruys, and A.P. Kappetein. "Mortality after coronary artery bypass grafting versus percutaneous coronary intervention with stenting for coronary artery disease: a pooled analysis of individual patient data". In: *The Lancet* 391.10124 (2018), pp. 939–948. doi: [10.1016/S0140-6736\(18\)30423-9](https://doi.org/10.1016/S0140-6736(18)30423-9).
20. S.J. Head, M. Milojevic, J. Daemen, J.-M. Ahn, E. Boersma, E.H. Christiansen, M.J. Domanski, M.E. Farkouh, M. Flather, V. Fuster, M.A. Hlatky, N.R. Holm, W.A. Hueb, M. Kamalesh, Y.-H. Kim, T. Mäkilä, F.W. Mohr, **Papageorgiou, G.**, S.-J. Park, A.E. Rodriguez, J.F. Sabik, R.H. Stables, G.W. Stone, P.W. Serruys, and A.P. Kappetein. "Stroke Rates Following Surgical Versus Percutaneous Coronary Revascularization". In: *Journal of the American College of Cardiology* 72.4 (2018), pp. 386–398. doi: [10.1016/j.jacc.2018.04.071](https://doi.org/10.1016/j.jacc.2018.04.071).
21. S.J. Head, **Papageorgiou, G.**, M. Milojevic, G.W. Stone, and A.P. Kappetein. "Interpretation of results of pooled analysis of individual patient data – Authors' reply". In: *The Lancet* 392.10150 (2018), p. 818. doi: [10.1016/S0140-6736\(18\)31779-3](https://doi.org/10.1016/S0140-6736(18)31779-3).
22. J.L.R. Romeo, **Papageorgiou, G.**, J.J.M. Takkenberg, and M.M. Mokhles. "The right time-dependent statistics: this is the moment". In: *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery* 54.6 (2018), p. 1145. doi: [10.1093/ejcts/ezy184](https://doi.org/10.1093/ejcts/ezy184).
23. J.L.R. Romeo, **Papageorgiou, G.**, P.C. Van De Woestijne, J.J.M. Takkenberg, L.E.H. Westenberg, I. Van Beynum, A.J.J.C. Bogers, and M.M. Mokhles. "Downsized cryopreserved and standardized allografts for right ventricular outflow tract reconstruction in children: Long-Term single-institutional experience". In: *Interactive Cardiovascular and Thoracic Surgery* 27.2 (2018), pp. 257–263. doi: [10.1093/icvts/ivy057](https://doi.org/10.1093/icvts/ivy057).
24. **Papageorgiou, G.**, S.W. Grant, J.J.M. Takkenberg, and M.M. Mokhles. "Statistical primer: How to deal with missing data in scientific research?" In: *Interactive Cardiovascular and Thoracic Surgery* 27.2 (2018), pp. 153–158. doi: [10.1093/icvts/ivy102](https://doi.org/10.1093/icvts/ivy102).