

Grigorios Papageorgiou

Biostatistician

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Professional Experience

2019 - Present	Statistical Consultant Department of Internal Medicine, Erasmus University Medical Center
2019 - Present	Education Assistant NIHES Innovation Team, Erasmus University Medical Center
2015 - Present	Researcher in Biostatistics Department of Biostatistics, Erasmus University Medical Center
2015 - Present	Statistical Consultant Consultation centre for Patient-Oriented research, Erasmus University Medical Center
2015 - 2019	Statistical Consultant Department of Cardio-Thoracic Surgery, Erasmus University Medical Center
2015	R Tutor LStat, KU LEUVEN, VIB Intensive hands-on course: "Introduction to R"
2014	Statistical Consultant LStat, KU LEUVEN Project on Applied Longitudinal Data Analysis

Education

2015 - Present	PhD in Biostatistics Department of Biostatistics, Erasmus University Medical Center advisor: Prof. Dimitris Rizopoulos
2013 - 2015	MSc in Statistics Katholieke Universiteit Leuven, Leuven, Belgium
2006 - 2011	BSc in Statistics and Insurance Science University of Piraeus, Piraeus, Greece

Research Interests

Join 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.

Programming Languages & Statistical Software Skills

Fluent R, C++, Markdown, L^AT_EX

Intermediate SAS, Stan, HTML, CSS

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 multivariate joint
models for longitudinal and multi-state processes
- 2018 **29th IBS, Barcelona, Spain**
Feature selection of longitudinal biomarkers in multivariate 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

Statistics in Medicine

Statistical Methods in Medical Research

Diagnostic and Prognostic Research

List of Publications

1. 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).
2. 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).
3. 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* (2020). doi: [10.1016/j.rehab.2019.12.011](https://doi.org/10.1016/j.rehab.2019.12.011).
4. **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* (2020). doi: [10.1177/1471082X20927114](https://doi.org/10.1177/1471082X20927114).
5. K. Veen, **Papageorgiou, G.**, C. Zijderhand, J. Brugts, M. Mokhles, O. Manintveld, A. Constantinescu, J. Bekkers, J. Takkenberg, A. Bogers, and K. Caliskan. "The Clinical Impact and Long-Term Outcome of Tricuspid Regurgitation in Patients with Orthotopic Heart Transplantation". In: *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation* 39.4 (2020), S291–S292. doi: [10.1016/j.healun.2020.01.647](https://doi.org/10.1016/j.healun.2020.01.647).
6. 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).
7. 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).
8. 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).
9. 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).
10. S.C. Rigtters, 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).
11. **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).
12. **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).
13. 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).

14. 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. Mäkikallio, 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).
15. 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. Mäkikallio, 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).
16. 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).
17. 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).
18. 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 standard-sized 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).
19. **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).