

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, \LaTeX**

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 et al. "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 et al. "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 et al. "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 et al. "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 et al. "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 Schroeffer, **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 et al. "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, **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).
15. S.J. Head et al. "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).
16. S.J. Head et al. "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).
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 et al. "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).