



*7-9 July 2025, Aegina, Danae Hotel*

## Conference Program

### Day 1: Monday 7<sup>th</sup> July 2025

9.00-10.30 Registration

10.30-12.00 Short Course (Chair: Ioannis Ntzoufras): Longitudinal data analysis and joint modeling (Part A) by **Giota Touloumi** (NKUA)

12.00-12.15 Coffee Break

12.15-13.45 Short Course (Chair: Christos Thomadakis): Causal time-series (Part A) by **Pantelis Samartsidis** (University of Cambridge)

13.45-15.00 Lunch Break

15.00-16.00 Invited Talk (Chair: Christos Thomadakis): Mendelian randomization: From promise to pitfalls and the path forward by **Ioanna Tzoulaki** (Biomedical Research Foundation of the Academy of Athens & ICL)

16.00-17.40 Research Presentations (Session Chair: Dimitris Karlis)

**Petros Barmounakis** (AUEB) *Multiphasic epidemic models*

**Panagiotis Papastamoulis** (AUEB) *Bayesian cure rate modeling for time to event data*

**Efthymia Derezea** (University of Bristol) *Meta-analysis of diagnostic test accuracy with multiple disease states: combining stage-specific accuracy data with descriptive statistics*

**Nikos Demiris** (AUEB) *Some remarks on robust Bayesian causal inference*

## **Day 2: Tuesday 8<sup>th</sup> July 2025**

9.30-11.00 Short Course (Chair: Fotios Siannis): Evidence synthesis models (pairwise and network meta-analysis) (Part A) by **Dimitris Mavridis** (Evidence Synthesis Methods Statistics Team of UOI)

11.00-11.15 Coffee Break

11.15-12.45 Short Course (Chair: Fotios Siannis): Causal time-series (Part B) by **Pantelis Samartsidis** (University of Cambridge)

12.45-14.00 Lunch Break

14.00-15.00 Invited Talk (Chair: Christos Thomadakis): Using joint models for longitudinal and time-to-event data to investigate the causal effect of salvage therapy after prostatectomy by **Dimitris Rizopoulos** (Erasmus University of Medical Center)

15.00-15.15 Coffee Break

15.15-17.20 Research Presentations (Session Chair: Nikos Demiris)

**Anastasios Apsemidis** (University of Ioannina) *Stable survival extrapolation via mortality projections*

**Aristidis K. Nikoloulopoulos** (University of East Anglia) *Vine copula mixed models for meta-analysis of multiple diagnostic tests*

**Venediktos Kapetanakis** (Evidera) *Is population adjustment enough to reduce bias in unanchored comparisons of progression-free survival in oncology? the importance of dealing with progression assessment time differences*

**Dimitris Karlis** (AUEB) *Single arm clinical trial designs with hierarchical testing*

**Melanie Wall** (Columbia University) *A prediction tool for individual outcome trajectories across the next year in first episode psychosis in coordinated specialty care*

20.00-21.00 Poster Session

1. *Modelling time series of different modalities* by **Anna Nalpantidi** (AUEB)
2. *Bayesian model screening: On the way to scalable approximations* by **Argyro Damoulaki** (AUEB)
3. *Considering individual variation of viral load in epidemic forecasting* by **Andre Ehrlich** (AUEB)

4. *Factor analysis for psychometric data: A study using the SPQ questionnaire* by **Zoe Sagri** (AUEB)
5. *Predicting cognitive ability in patients with frontotemporal dementia using brain measures volumetric data* by **Athanasia Kalogirou** (AUEB)
6. *Estimating treatment effects for two groups in the presence of informative censoring- A simulation approach* by **Stylianios Tzortzakis** (NKUA)
7. *Adapting standard surrogacy models to incorporate real-world evidence via user- or data-driven information sharing* by **Anastasios Tasoulas** (IQVIA)
8. *Bridging single arm studies with individual participant data in network meta-analysis of randomized controlled trials: A simulation study* by **Katerina Maria Kontouli** (UOI)
9. *Bayesian fMRI analysis in Fourier space* by **Konstantinos Bakas** (King Abdullah University of Science and Technology)
10. *Restricted mean survival time: regression analyses* by **Eirini Matsouka** (AUEB & FSF-H)
11. *Extrapolating overall survival data: A practical guide to methods and model selection for long-term predictions* by **Michalis Galanakis** (Evidera)
12. *Personalized causal effect estimation: A Bayesian approach using observational and experimental data* by **Konstantina Lelova** (U Crete)
13. *Variable selection for survival data with multiply imputed covariates: A comparative simulation study* by **Valia Baralou** (NKUA)
14. *Joint modeling of longitudinal data and potentially informative visiting process to dynamically predict future visiting times* by **Achilleas Stamoulopoulos** (NKUA)
15. *Real-world effectiveness of COVID-19 vaccines in the Netherlands: A test-negative case-control study within the pharm lines initiative* by **Stefan Verweij** (U Groningen)
16. *Extending network meta analysis to include non-randomized evidence: Results of a scoping review* by **Ourania Koutsouroumpa** (UOI)
17. *Investigating single and combined environmental long-term exposure on cardiometabolic morbidity in a population sample in Athens, Greece* by **Dimitris Stamatou** (NKUA)
18. *Nonlinear dynamics and machine learning for ECG diagnosis: Insights from the PTB-XL dataset* by **Spyridon Kontos** (NKUA)

20.00- Wine and Finger Food Reception

### Day 3: Wednesday 9<sup>th</sup> July 2025

9.30-11.00 Short Course (Chair: Dimitris Karlis): Longitudinal data analysis and joint modeling (Part B) by **Christos Thomadakis** (NKUA & AUEB)

11.00-11.15 Coffee Break

11.15-12.45 Short Course (Chair: Nikos Demiris): Evidence synthesis models (pairwise and network meta-analysis) (Part B) by **Dimitris Mavridis** (Evidence Synthesis Methods Statistics Team of UOI)

12.45-13.00 Coffee Break

13.00-15.00 Research Presentations (Session Chair: Ioannis Ntzoufras)

**Petros Pechlivanoglou** (The Hospital for Sick Children Research Institute) *Recovering parameters of a multistate model from aggregate overall and progression-free survival data using Bayesian model calibration*

**Loukia Meligkotsidou** (NKUA) *A Bayesian approach to estimating the prevalence of opioid dependence*

**Fotios Siannis** (NKUA) *Meta-analysis of time-to-event data under model misspecification*

**Irini Moustaki** (LSE) *Unfolding the network of peer grades: A latent variable approach*

**TBC** *Summarizing the conference*