

# Curriculum Vitae

## Petropoulou Maria

### Personal information

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Date of Birth: 31 March 1991  
Nationality: Greek  
Address: Tsianou 8, 45221  
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### Professional Experience

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#### Visiting Fellow

Institute of Medical Biometry and Statistics, Faculty of Medicine and Medical Center – University of Freiburg, Germany.  
(March 2018)

#### Research associate in Biostatistics

Department of Primary Education, University of Ioannina, Greece  
*Working on the project “Optimizing therapy to prevent avoidable hospital admissions in the multimorbid elderly” [Horizon 2020 grant] (www.operam-2020.eu) under the supervision of Dr. Dimitris Mavridis.*  
(April 2017- present)

#### Research associate in Biostatistics

Department of Hygiene and Epidemiology, School of Medicine, University of Ioannina, Greece  
*Working on the projects “Integrating the multiple meta-analysis (IMMA)” [Commission of the European Communities grant], “Incorporating real-life clinical data into drug development (GetReal)” [Innovative Medicines Initiative Joint Undertaking (IMI JU) grant] under the supervision of Dr. Georgia Salanti and Dr. Dimitris Mavridis.*  
(June 2015– April 2016)

## Qualifications

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### **Doctor of Philosophy in Statistics**

Department of Primary Education, University of Ioannina, Greece

Thesis: "Exploring methodological challenges in meta-analyses models: outlier detection and publication bias" (in English).

Supervisor: Dr. Dimitris Mavridis

*(January 2017 – present)*

### **Master in Statistics and Operational Research**

Department of Mathematics, University of Ioannina, Greece

Thesis (in biostatistics): "A comparison of 24 heterogeneity variance estimators in statistical synthesis of results from studies: A simulation study" (in Greek).

Supervisor: Dr. Dimitris Mavridis

*(November 2013 – October 2015)*

### **Bachelor's Degree in Mathematics**

Department of Mathematics, University of Ioannina, Greece

Grade: 6.50/10 (Very Good- top 10% of my class)

*(October 2009 – October 2013)*

## Teaching

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Organizing and teaching in 3 days workshop "Pairwise and network meta-analysis", 4-6 July 2018, Institute for Medical Technology Assessment (iMTA B.V.), Erasmus University of Rotterdam, Netherlands.

## Scholarship

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PhD studies are funded by Hellenic Foundation for Research and Innovation (ELIDEK).

## Publications

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Rücker G, **Petropoulou M**, Schwarzer G. Network meta-analysis of multicomponent interventions. *Biometrical Journal* (submitted).

**Petropoulou M**, Mavridis D. A comparison of 20 heterogeneity variance estimators in statistical synthesis of results from studies: A simulation study. *Statistics in Medicine* 36 (27), 4266-4280.

**Petropoulou M**, Nikolakopoulou A, Veroniki AA, Rios P, Vafaei A, Giannatsi M, Sullivan S, Tricco A, Chaimani A, Egger M, Salanti G. Bibliographic study showed improving statistical methodology of network meta-analyses published between 1999 and 2015. *Journal of Clinical Epidemiology* 82, 20-28.

Terkawi A, Mavridis D, Sessler D, Nunemaker M, Doais K, Terkawi R, Terkawi Y, **Petropoulou M**, Nemergut E. Pain management modalities after total knee arthroplasty: A network meta-analysis of 170 randomized controlled trials. *Anesthesiology: The Journal of the American Society of Anesthesiologists* 126 (5), 923-937.

Zarin W, Veroniki AA, Nincic V, Vafaei A, Reynen E, Motiwala S, Antony J, Sullivan S, Daly C, Ewusie J, Rios P, **Petropoulou M**, Nikolakopoulou A, Chaimani A, Salanti G, Straus SE, Tricco AC. Characteristics and knowledge synthesis approach for 456 network meta-analyses: A scoping review. *BMC Medicine* 15 (1), 3.

## Participation in Conferences

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**Petropoulou M**, Salanti G, Rucker G, Schwarzer G, Moustaki I, Mavridis D. A forward search algorithm for detection extreme study effects in network meta-analysis. 25<sup>th</sup> Cochrane Colloquium, September 2018, Edinburgh (oral).

**Petropoulou M**, Efthimiou O, Salanti G, Mavridis D. Evaluating the effects of complex interventions via meta-analytical models: a methodological review. 64. Biometrisches Kolloquium, 25-28 March 2018, Frankfurt (oral).

Chaimani A, **Petropoulou M**, Nikolakopoulou A, Salanti G. A methodological systematic review of 456 published network meta-analyses. 24<sup>th</sup> Cochrane Colloquium, 23-27 October 2016, Seoul (poster).

Giannatsi M, **Petropoulou M**, Nikolakopoulou A, Chaimani A, Salanti G. An empirical study investigating the extent of heterogeneity, inconsistency and potential limitations in published networks of interventions in 2013, 23<sup>rd</sup> Cochrane Colloquium, October 2015, Vienna (poster).

Terkawi A, Mavridis D, Sessler D, Nunemaker M, Doais K, Terkawi R, Terkawi Y, **Petropoulou M** and Nemergut E. Pain management modalities after total knee arthroplasty: A network meta-analysis of randomized controlled trials. (oral, presenter: Abdullah Sulieman Terkawi) ANESTHESIOLOGY 2016 annual meeting, 22-26 October 2016, Chicago.

## Participation in research meetings

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Kick-off meeting of COMPAR-EU participants, 11-12 January 2018, Barcelona, Spain.

Clinical sites meeting of OPERAM participants, 29 November 2017, UCL campus Brussels, Belgium.

Participation in weekly research meetings Research in Progress and Journal Club at the academic years 2015-2016, 2016-2017 and 2017-2018 in Department of Hygiene and Epidemiology, School of Medicine, University of Ioannina.

## Languages

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Greek (native language)

English (Proficiency)

Test of interactive English (C2)

CITY AND GUILDS -LEVEL 1 Certificate in ESOL International (B2)

## Statistical programming skills

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Statistical programming with R; Stata; Jags; WinBUGS; SPSS

GitHub repository: <https://github.com/petropouloumaria>

- package NMAoutlier: Forward Search Algorithm in Network Meta-Analysis to identify outlying and influential studies.

## Digital skills

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### **ECDL Core Certificate**

European Computer Driving License Syllabus Version: 4.0

*Modules: Databases, Concepts of IT, Work Processing, Presentations, Information and Communication, Spreadsheets, Using the Computer and Managing Files*

## Research interests

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Evidence synthesis; Statistical modelling; Heterogeneity in meta-analysis; Network meta-analysis; Complex interventions; Outliers; Publication bias

## Seminars and Conferences attended

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Attended the one-day workshop on Bayesian Statistics "A Taster of Bayesian Statistics for the Environmental Sciences", 10 April 2017, Department of Biological Applications and Technology, University of Ioannina.

Attended the course on Network Meta-Analysis, Cochrane Mid-Year meeting, 3-8 May 2015, Athens.

Attended the weekly seminars at the academic years 2013-2014 and 2014-2015 in Department of Mathematics, University of Ioannina.

## Reviewer

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Systematic reviews  
British Journal of Dermatology

(<https://publons.com/author/1313089>)