

Sofia Tsokani

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Experience

Research Associate in Biostatistics

- **May 2020 - Present:**

- ***COMPAR-EU: Comparing effectiveness of self-management interventions in 4 high priority chronic diseases in Europe***

- *COMPAR-EU is a multimethod, inter-disciplinary project that will contribute to bridging the gap between current knowledge and practice of self-management interventions. The aim is to identify, compare, and rank the most effective and cost-effective self-management interventions (SMIs) for adults in Europe living with one of the four high-priority chronic conditions: type 2 diabetes, obesity, chronic obstructive pulmonary disease, and heart failure. COMPAR-EU is funded by Commission of the European Communities, HORIZON 2020). My contribution to the project lies in conducting network meta-analyses for the comparison of the effectiveness of SMIs.*

- **January 2021-Present:**

- ***COH-FIT: Collaborative Outcomes study on Health and Functioning during Infection Times***

- *The Collaborative Outcomes study on Health and Functioning during Infection Times ([COH-FIT](#)) is a large international survey project for the entire population of countries affected by the coronavirus pandemic (COVID-19). The project involves almost 200 investigators in more than 35 countries and has been endorsed by multiple national and international professional organizations. The COH-FIT project aims to identify risk and protective factors that will inform prevention and intervention programs for the COVID-19 pandemic and should other pandemics occur in the future.*

- **September 2021 - January 2022:**

- ***Visiting research student*** (Erasmus+ grant) at Centre of Research in Epidemiology and Statistics, Sorbonne Paris Cité ([CRESS-UMR1153](#)), Université de Paris, Inserm, Paris, France.

- *During this period I was involved in:*

- [COVID-NMA](#) project
 - Empirical evaluation of the methods used to synthesize observational studies within meta-analyses

- **March 2020 - May 2021**

- ***“Extending Network-Meta Analysis to Diagnostic Tests”***

- *The aim (see [Protocol](#)) was to collect and empirically assess the properties of the available statistical methods (using data from a collection of comparative DTA reviews) developed for conducting a network meta-analysis of diagnostic accuracy studies (NMA-DTA) and identify their potential methodological deficiencies and strengths. The project was co-financed by Greece and the European Union (European Social Fund- ESF) through the Operational Program «Human Resources Development, Education and Lifelong Learning 2014-2020».*

- **March 2018 - April 2020:**

- ***OPERAM: Optimising therapy to prevent avoidable hospital admissions in the multimorbid elderly***

- *The overall aim of [OPERAM](#) was to optimise existing pharmacological and non-pharmacological therapy primarily in order to reduce avoidable hospital admissions among the elderly population aged ≥ 75 years with multimorbidity. My contribution to the project was conducting network meta-analyses for the comparison of the pharmacological and non-pharmacological interventions. This project received funding from the European Union's Horizon 2020 research grant.*

- **July 2014-August 2014: Practical Training**

- *KESYEK, Ioannina-Statistical analysis of questionnaires*

Education

- **February 2019-Present: PhD Student in Biostatistics**
(Subject of dissertation on Network meta-analysis and Diagnostic Test Accuracy studies)
Department of Primary Education, University of Ioannina, Greece (Supervisor: Prof. D. Mavridis)
- **October 2015-December 2017: M.Sc. in Statistics and Operations Research**
Department of Mathematics, University of Ioannina, Greece
Thesis: "A review on methods for handling missing data" (Supervisor: Prof. D. Mavridis)
- **October 2009-June 2015: B.Sc. in Mathematics**
Department of Mathematics, University of Ioannina, Greece

Teaching Experience

- **September 2019 – Present: Teaching Support** at [Coursity](#),
Training and Lifelong Learning Center of the Hellenic Open University.
 - [Introduction to Statistical Analysis \(SPSS\)](#)
 - [Statistical Meta-analysis model using R](#)
- **May 2015-June 2015: Teaching Support** at Department of Mathematics, University of Ioannina, Greece

Conferences and Presentations

1. "Evaluating Multiple Diagnostic Tests: An Application to Cervical Intraepithelial Neoplasia", 25-26 February 2021, «International Conference on Epidemiology and Public Health», Sydney, Australia
2. "Extending network meta-analysis to diagnostic test accuracy studies", Decision Making Under Uncertainty: The Role of Data, 19th November 2019, Department of Mathematics, University of Patras, Greece
3. "Meta-analysis seminar", 1 June 2019, 32nd Panhellenic Statistics Conference, Ioannina, Greece
4. 2nd Panhellenic Conference of Young Researchers in the Branches of Mathematical Science, June 2018 (Oral Presentation) "A review on methods for handling missing data". Department of Mathematics, University of Ioannina, Greece

Conferences and Presentations (contributed)

1. "Abstract TP199: Incidence, Characteristics and Outcomes in Patients with Embolic Stroke of Undetermined Source: A Population-based Study." International Stroke Conference 2019 Poster Abstracts, Session Title: Community/risk factors Posters II. Tsvigoulis, G., Kargiotis, O., Katsanos, A. H., Patousi, A., Mavridis, D., Tsokani, S., et al.

Publications

Google Scholar Profile: <https://scholar.google.com/citations?user=tUVZuqcAAAAJ&hl=eI>

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1. Veroniki, A.A., Tsokani, S., Agarwal, R., Pagkalidou, E., Rücker, G., Mavridis, D., Takwoingi, Y. [Diagnostic test accuracy network meta-analysis methods: A scoping review and empirical assessment](#). J Clin Epidemiol. 2022 Feb 15:S0895-4356(22)00040-3. doi: 10.1016/j.jclinepi.2022.02.001. Epub ahead of print. PMID: 35181490.
2. Trujillo-Gómez, J., Tsokani, S., Arango-Ferreira, C., Atehortúa-Muñoz, S., Jimenez-Villegas, MJ., Serrano-Tabares, C., Veroniki, A.A., Florez ID. [Biofire FilmArray Meningitis/Encephalitis panel for the aetiological diagnosis of central nervous system infections: A systematic review and diagnostic test accuracy meta-analysis](#). EClinicalMedicine. 2022 Feb 14;44:101275. doi: 10.1016/j.eclinm.2022.101275. PMID: 35198914.
3. Veroniki A.A., Tsokani, S., Rücker, G., Mavridis D., Takwoingi Y. (2022) [Challenges in Comparative Meta-Analysis of the Accuracy of Multiple Diagnostic Tests](#). In: Evangelou, E., Veroniki, A.A. (eds) Meta-Research.

Methods in Molecular Biology, vol 2345. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-1566-9_18

4. Veroniki, A.A., Tsokani, S., White I.R., Schwarzer, G., Rücker, G., Mavridis, D., Higgins, J.P.T., Salanti, G.: [Prevalence of evidence of inconsistency and its association with network structural characteristics in 201 published networks of interventions](#). BMC Med Res Methodol. 2021 Oct 25;21(1):224. doi: 10.1186/s12874-021-01401-y. PMID: 34689743; PMCID: PMC8543923.
5. Veroniki, A.A., Tsokani, S., Zevgiti, S., Pagkalidou, I., Kontouli, K.M., Ambarcioglu, P., Pandis, N., Lunny, C., Nikolakopoulou, A., Papakonstantinou, T., Chaimani, A., Straus, S.E., Hutton, B., Tricco, A.C., Mavridis, D., Salanti, G. Do reporting guidelines have an impact? [Empirical assessment of changes in reporting before and after the PRISMA extension statement for network meta-analysis](#). Syst Rev. 2021 Sep 10;10(1):246. doi: 10.1186/s13643-021-01780-9. PMID: 34507621
6. Dautzenberg L, Beglinger S, Tsokani S, Zevgiti S, Raijmann RCMA, Rodondi N, Scholten RJPM, Rutjes AWS, Di Nisio M, Emmelot-Vonk M, Tricco AC, Straus SE, Thomas S, Bretagne L, Knol W, Mavridis D, Koek HL. [Interventions for preventing falls and fall-related fractures in community-dwelling older adults: A systematic review and network meta-analysis](#). J Am Geriatr Soc. 2021 Oct;69(10):2973-2984. doi: 10.1111/jgs.17375. Epub 2021 Jul 28. PMID: 34318929
7. Tsokani, S., Antoniou, S.A., Moustaki, I. et al. (2021). [Guideline Assessment Project II: statistical calibration informed the development of an AGREE II extension for surgical guidelines](#). Surgical Endoscopy. <https://doi.org/10.1007/s00464-021-08604-w>
8. Dautzenberg L, Bretagne L, Koek HL, Tsokani S, Zevgiti S, Rodondi N, Scholten RJPM, Rutjes AW, Di Nisio M, Raijmann RCMA, Emmelot-Vonk M, Jennings ELM, Dalleur O, Mavridis D, Knol W. [Medication review interventions to reduce hospital readmissions in older people](#). J Am Geriatr Soc. 2021 Jun;69(6):1646-1658. doi: 10.1111/jgs.17041. Epub 2021 Feb 12. PMID: 33576506.
9. Veroniki, A.A., Tsokani, S., Paraskevaidis, E., Mavridis, D., "[Evaluating multiple diagnostic tests: An application to cervical cancer](#)", An Obstetrics and Gynecology International Journal, HJOG 2021, 20(1), 11-24
10. Antoniou SA, Tsokani S, Mavridis D, Agresta F, López-Cano M, Muysoms FE, Morales-Conde S, Bonjer HJ, van Veldhoven T, Francis NK; [EAES Consensus & Guideline Subcommittee. Insight into the methodology and uptake of EAES guidelines: a qualitative analysis and survey by the EAES Consensus & Guideline Subcommittee](#). Surg Endosc. 2021 Mar;35(3):1238-1246. doi: 10.1007/s00464-020-07494-8. Epub 2020 Apr 2. PMID: 32240381.
11. Tsokani, S., Mavridis, D., Hajibandeh, S., Hajibandeh, S., Antoniou, G. A., Andreou, A., Antoniou, S. A. (2020). [An observational study of missing data inquiry from randomized trial authors showed a poor response](#). Journal of Clinical Epidemiology, 119, 19–25. <https://doi.org/10.1016/j.jclinepi.2019.11.014>
12. Antoniou, S. A., Tsokani, S., Mavridis, D., López-Cano, M., Antoniou, G. A., Stefanidis, D., Francis, N. K., Smart, N., Muysoms, F. E., Morales-Conde, S., Bonjer, H. J., & Brouwers, M. C. (2019). [Guideline Assessment Project: Filling the GAP in Surgical Guidelines: Quality Improvement Initiative by an International Working Group](#). Annals of Surgery, 269(4), 642–651. <https://doi.org/10.1097/sla.0000000000003036>
13. Tsivgoulis, G., Kargiotis, O., Katsanos, A. H., Patousi, A., Mavridis, D., Tsokani, S., et al. (2019). [Incidence, characteristics and outcomes in patients with embolic stroke of undetermined source: A population-based study](#). Journal of the Neurological Sciences, 401, 5–11. <https://doi.org/10.1016/j.jns.2019.04.008>

IT/Programming Skills

R, Stata, IBM SPSS, MS Office

Seminars and Workshops

- 11-13.09.2019 "**Systematic reviews and meta-analyses of diagnostic test accuracy**". University of Birmingham, Birmingham, UK
- 10.04.2017 "**A Taster of Bayesian Statistics for the Environmental Sciences**". Ecology Lab BET, University of Ioannina, Greece
- 15-26.12.2014 "**The economic functions of the state in the market system**", Distance learning seminar, Department of Economics, University of Ioannina
- 15-31.12.2014 "**Economic and Employment Policies**", Distance learning seminar, Department of Economics, University of Ioannina
- 10-22.3.2014 "**Public Administration: operation and decision making**", Distance learning seminar, Department of Economics, University of Ioannina
- 10-22.3.2014 "**Introduction to business psychology**", Distance learning seminar, Department of Economics, University of Ioannina

Honours

"**Christodoulos Efthimiou**" Scholarship for undergraduate (4 years) studies.

Languages

- English (C2 level)
- French (B2 level)
- Greek (Mother Tongue)

