

Dr. Theodoros Evrenoglou

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Current Roles

- 2025-present **Principal Investigator**, Institute of Medical Biometry and Statistics (IMBI), Faculty of Medicine and Medical Center—University of Freiburg, Freiburg, Germany.
Project title: Multivariate methods in evidence synthesis: extending their framework and applicability, funded by the German Research Foundation (DFG)
- 2024-present **Group Leader of the Meta-analysis Group**, Institute of Medical Biometry and Statistics (IMBI), Faculty of Medicine and Medical Center—University of Freiburg, Freiburg, Germany.

Professional Experience

- 2024-2025 **Postdoctoral Research Associate**, Institute of Medical Biometry and Statistics (IMBI), Faculty of Medicine and Medical Center—University of Freiburg, Freiburg, Germany.
- 2022-2023 **Postdoctoral Research Associate**, Université Paris Cité, Research Center of Epidemiology & Statistics (CRESS-UMR1153), Inserm, France.
Project title: Integrating multiple sources of evidence for optimized comparative effectiveness research (OptiCER), funded by the French National Research Agency
- 2019-2022 **Research Associate in Biostatistics**, working on the project: COVID-NMA initiative, Cochrane, France.
- 2018-2019 **Research Assistant in Biostatistics**, Evidence Synthesis Methods Team, University of Ioannina, Greece.
- 2017 **Internship**, Hellenic Statistical Authority.

Qualifications

- 2019–2022 **PhD in Biostatistics**, Université Paris Cité, Research Center of Epidemiology & Statistics (CRESS-UMR1153), Inserm, France,
Thesis: "Dealing with sparse data in network meta-analysis",
Supervisor: Prof. Dr. Anna Chaimani.

2017–2019 **MSc in Statistics and Operational Research**, Department of Mathematics, University of Ioannina, Advisor: Prof. Dr. D.Mavridis.

2013–2017 **BSc in Mathematics**, Department of Mathematics, University of Ioannina.

Languages, English (proficient level), French (working language), Greek (mother tongue).

Research Funding

2025-2027 **Individual grant**, under the *Walter-Benjamin Position* scheme, funded by the German Research Foundation (DFG).

Total amount: 226,310€

2019-2022 **Full 3 years PhD fellowship**, from Université Paris Cité (IdEx Individual Fellow).

Total amount: 100,000€

2022 **Visiting fellowship**, from Université Paris Cité hosted at MRC Clinical Trials Unit at University College London (UCL), working with Prof. Dr. Ian R. White.

Total amount: 1,000€

Teaching Activities

2025 **Course on meta-analysis (invited speaker)**, in the context of the CNRS Autumn School with topic "Experimental data in social sciences and humanities: Meta-analysis methods", Tourcoing, France ([link](#)).

2025 **Exploring heterogeneity**, Cochrane online webinar ([link](#)).

2025 **Course on network meta-analysis (invited speaker)**, in the context of the International Summer School organized by the Centre for Research Epidemiology and Statistics (CRESS), Paris, France ([link](#)).

2025 **Lecturer in a full semester class**, An Introduction to Meta-Analysis ([link](#)).

2025 **Lecturer in a full semester class**, Introduction to Medical Statistics with R ([link](#)).

2024 **Seminar on meta-analysis in presence of rare events**, Cochrane Colloquium, Prague, Czech Republic ([link](#)).

2023 **Seminar on meta-analysis in presence of rare events**, Cochrane Colloquium, London, England ([link](#)).

2023 **Course on network meta-analysis (invited speaker)**, Galway, Ireland ([link](#)).

2023 **Université Paris Cité**, Teaching courses in "Advanced meta-analysis", Msc. in Public Health in Comparative Effectiveness Research, ([link](#)).

2022 **Course on network meta-analysis (invited speaker)**, Biarritz, France, ([link](#)).

- 2021 **Université Paris Cité**, Teaching courses in "Advanced meta-analysis" and "Network meta-analysis", Msc. in Public Health in Comparative Effectiveness Research, ([link](#)).

Supervision

PhD candidates

- Nana Kwarteng, Public Health Statistician, Title: "**Uncertainty and heterogeneity in network meta-analysis with small subgroups and few studies**", Thesis started in November 2023 at Institute of Medical Biometry and Statistics (IMBI), Faculty of Medicine and Medical Center—University of Freiburg, Freiburg, Germany (co-supervision with Dr. Adriani Nikolakopoulou).

MSc Students

- Konstantinos Panousis, Mathematician, Title: "**Assessing the impact of clinical important difference in ranking Network Meta-Analysis**", Thesis started in September 2024 in the context of the Master Program *Health Statistics & Data Analytics* at Faculty of Health Sciences, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece (co-supervision with Dr. Adriani Nikolakopoulou)

Internships

- Ourania Koutsouroumpa, Mathematician, 3 month internship (March-June 2025) at Institute of Medical Biometry and Statistics (IMBI), Faculty of Medicine and Medical Center—University of Freiburg, Freiburg, Germany.

Prizes and Awards

- 2022 **Student conference award at the 43rd Annual Conference of the International Society for Clinical Biostatistics, Newcastle, England.**
Project title: [Evrenoglou T](#), Metelli S, Thomas JS, Sifakis S, Turner RM, Leucht S, Chaimani A. Sharing information across patient subgroups to draw conclusions from sparse treatment networks

Membership to Editorial Boards and Peer Reviewing

Associate Editor **Research Synthesis Methods.**

Peer Reviewer **BMJ, Statistics in Medicine, Research Synthesis Methods, Journal of Clinical Epidemiology, Evidence-Based Mental Health, British Journal of Dermatology, PLOS One, PLOS Global Public Health, BMJ Open.**

Scientific Committees

2024-present **Co-chair** of the Cochrane Statistical Methods Group ([link](#))

Member of the Society for Research Synthesis Methodology,
<http://www.srsm.org>

Member of the International Society for Clinical Biostatistics,
<https://iscb.info/>

Invited Talks

- 2023 **Université Paris Saclay**, Organized by: Oncostat team at the Gustave Roussy Institute, Paris, Presentation title: *Dealing with sparse data in network meta-analysis*.
- 2023 **2nd Cochrane India Network Conference**, Organized by: Cochrane India - KGMU Affiliate, Presentation title: *Introduction to Meta-analysis* ([link](#)).
- 2021 **A day with...Statistical Methods Group**, Organized by: Cochrane Statistical Methods Group, Presentation title: *Penalized regression in network meta-analysis: a new approach for analyzing networks of interventions with rare events* ([link](#)).
- 2019 **Clinical Studies from A to Z, Proper Research Practice and Monoclonal Antibodies in Neurology, Athens, Greece**, Organized by: Hellenic Academy of NeuroImmunology, Presentation title: *Effect size measures*.

Conference Oral Contributions (First Author Only)

- [Evrenoglou T](#), Chaimani A, Rücker G, Schwarzer G, Resolving conflicting treatment hierarchies across multiple outcomes in multivariate network meta-analysis, *46th Annual Conference of the International Society for Clinical Biostatistics, 2025, Basel, Switzerland*
- [Evrenoglou T](#), Chaimani A, Rücker G, Schwarzer G, Resolving conflicting treatment hierarchies across multiple outcomes in multivariate network meta-analysis, *Annual Conference of the Society for Research Synthesis Methodology, 2025, Madison, Wisconsin, USA*
- [Evrenoglou T](#), Nikolakopoulou A, Schwarzer G, Rücker G, Chaimani A, Producing treatment hierarchies in network meta-analysis using probabilistic models and treatment-choice criteria, *7th DAGStat conference, 2025, Berlin Germany*
- [Evrenoglou T](#), Nikolakopoulou A, Schwarzer G, Rücker G, Chaimani A, Producing treatment hierarchies in network meta-analysis using probabilistic models and treatment-choice criteria, *45th Annual Conference of the International Society for Clinical Biostatistics, 2024, Thessaloniki, Greece*
- [Evrenoglou T](#), Nikolakopoulou A, Schwarzer G, Rücker G, Chaimani A, Producing treatment hierarchies in network meta-analysis using probabilistic models and treatment-choice criteria, *Annual Conference of the Society for Research Synthesis Methodology, 2024, Amsterdam, Netherlands*
- [Evrenoglou T](#), Nikolakopoulou A, Schwarzer G, Rücker G, Chaimani A, Producing treatment hierarchies in network meta-analysis using probabilistic models and treatment-choice criteria, *Cochrane Colloquim, 2023, London, England*
- [Evrenoglou T](#), Chaimani A, Boutron I, Building and maintaining open-access platforms

for living synthesis projects, *Annual Conference of the Society for Research Synthesis Methodology, 2023, Paris, France*

- [Evrenoglou T](#), Boutron I, Seitidis G, Ghosn L, Chaimani A. metaCOVID: A web-application for living meta-analyses of COVID-19 trials, *ESMAR-R conference, 2023, virtual*
- [Evrenoglou T](#), Metelli S, Thomas JS, Siasis S, Turner RM, Leucht S, Chaimani A. Sharing information across patient subgroups to draw conclusions from sparse treatment networks, *43rd Annual Conference of the International Society for Clinical Biostatistics, 2022, Newcastle, England*
- [Evrenoglou T](#), Metelli S, Thomas JS, Siasis S, Turner RM, Leucht S, Chaimani A. Sharing information across patient subgroups to draw conclusions from sparse treatment networks, *Annual Conference of the Society for Research Synthesis Methodology, 2022, Portland, Oregon, USA*
- [Evrenoglou T](#), White IR, Afach S, Mavridis D, Chaimani A. Network meta-analysis of rare events using penalized likelihood regression, *DAGStat Conference, 2022, Hamburg, Germany*
- [Evrenoglou T](#), White IR, Afach S, Mavridis D, Chaimani A. Network meta-analysis of rare events using penalized likelihood regression, *41st Annual Conference of the International Society for Clinical Biostatistics, 2020, Krakow, Poland (virtual)*
- [Evrenoglou T](#), Mavridis D. Bias reduction of the maximum likelihood estimator in cases of rare events, *32nd Panhellenic Statistics Conference, 2019, Ioannina, Greece*

Publications

Doctoral Thesis

Evrenoglou T. Dealing with sparse data in network meta-analysis, *Université Paris Cité, Research Center of Epidemiology and Statistics (CRESS-U1153), INSERM, Paris, France* ([link](#))

Book Chapters

1. [Evrenoglou T](#), Metelli S, Chaimani A, Introduction to Meta-Analysis. In: Piantadosi S., Meinert C.L. (eds) Principles and Practice of Clinical Trials. Springer, Cham, 2021 ([link](#))

Published Research in Peer-Reviewed Journals

1. Panagiotopoulou K., [Evrenoglou T.](#), Schmid CH., Metelli S., Chaimani A., Meta-analysis models relaxing the random effects normality assumption: methodological systematic review and simulation study, 2025, accepted at *BMC Medical Research Methodology*
2. Schramm E, Elsaesser M, Müller J, Kwarteng NA, [Evrenoglou T](#), Cuijpers P, et al., Efficacy of psychotherapy versus pharmacotherapy, or their combination, in chronic depression: study protocol for a systematic review and network meta-analysis using aggregated and individual patient data. *BMJ Open*, 2025 ([link](#))
3. [Evrenoglou, T.](#), Metelli, S., Thomas, J.-S., Siasis, S., Turner, R. M., Leucht, S., Chaimani, A. Sharing information across patient subgroups to draw conclusions from sparse treatment networks. *Biometrical Journal*, 2024 ([link](#))

4. Davidson, M., Evrenoglou, T., Graña, C. et al. Comparison of effect estimates between preprints and peer-reviewed journal articles of COVID-19 trials. *BMC Medical Research Methodology*, 2024 ([link](#))
5. Evrenoglou T, Boutron, I., Seitidis, G., Ghosn, L. and Chaimani, A. metaCOVID: A web-application for living meta-analyses of COVID-19 trials. *Research Synthesis Methods*, 2023 ([link](#))
6. Davidson M, Evrenoglou T, Graña C, Chaimani A, Boutron I. No evidence of important difference in summary treatment effects between COVID-19 preprints and peer-reviewed publications: a meta-epidemiological study. *Journal of Clinical Epidemiology*, 2023, ([link](#))
7. Evrenoglou, T, White, IR, Afach, S, Mavridis, D, Chaimani, A. Network meta-analysis of rare events using penalized likelihood regression. *Statistics in Medicine*, 2022 ([link](#))
8. Evrenoglou, T, Stratification according to disease severity can better reveal the relative effectiveness of treatments for acne vulgaris. *British Journal of Dermatology*, 2022 ([link](#))
9. Graña C, Ghosn L, Evrenoglou T, Jarde A, Minozzi S, Bergman H et al. Efficacy and safety of COVID-19 vaccines. *Cochrane Database of Systematic Reviews*, 2022 ([link](#))
10. Davidson M, Menon S, Chaimani A, Evrenoglou T, Ghosn L, Graña C et al. Interleukin-1 blocking agents for treating COVID-19. *Cochrane Database of Systematic Reviews*, 2022 ([link](#))
11. Ghosn L, Chaimani A, Evrenoglou T, Davidson M, Graña C, Schmucker C et al. Interleukin-6 blocking agents for treating COVID-19: a living systematic review. *Cochrane Database of Systematic Reviews*, 2021 ([link](#))
12. Afach S, Chaimani A, Evrenoglou T, Penso L, Brouste E, Sbidian E, Le Cleach L. Meta-analysis results do not reflect the real safety of biologics in psoriasis. *British Journal of Dermatology*, 2021 ([link](#))
13. Siafaka V, Zioga A, Evrenoglou T, Mavridis D, Tsaouri S. Illness perceptions and quality of life in families with child with atopic dermatitis. *Allergologia et Immunopathologia*, 2020 ([link](#))
14. Afach S, Evrenoglou T, Oubaya N, Le Cleach L, Sbidian E. Most randomized controlled trials for psoriasis used placebo comparators despite the availability of effective treatments. *Journal of Clinical Epidemiology*, 2021 ([link](#))
15. Afach S, Chaimani A, Evrenoglou T, Oubaya N, Le Cleach L, Sbidian E, Utilisation du groupe placebo dans les essais contrôlés randomisés sur le psoriasis, *Annales de Dermatologie et de Vénéréologie*, 2020 ([link](#))

Submitted and Working Manuscripts

1. Evrenoglou T, Nikolakopoulou A, Schwarzer G, Rücker G, Chaimani A, Producing treatment hierarchies in network meta-analysis using probabilistic models and treatment-choice criteria. 2025, *submitted manuscript* ([link](#))
2. Evrenoglou T, Chaimani A, Rücker G, Schwarzer G, Resolving conflicting treatment hierarchies across multiple outcomes in multivariate network meta-analysis, 2025 *working manuscript*

3. Kwarteng AN, Evrenoglou T, Nikolakopoulou A, Illuminating meta-regression models in network meta-analysis, 2025, *working manuscript*
4. Siemens W, Borenstein M, Evrenoglou T, Meerpohl JJ, Schwarzer G, Visualizing heterogeneity in random-effects meta-analysis based on prediction intervals: predicted probability of studies indicating relevant benefit or harm, 2025, *submitted manuscript*
5. Farmakis I, Binder H, Chopard R, Christodoulou K, Evrenoglou T, et al., Reperfusion strategies for acute pulmonary embolism (RECONNECT-PE): Protocol of a prospective living systematic review and network meta-analysis, 2025, *working manuscript*

Published Software

R packages: [mtrank](#), [mvnma](#)

Contributions to R packages: [netmeta](#)

R-Shiny applications: metaCOVID (<https://covid-nma.com/metacovid/>)