

Vasilis Chasiotis

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3/5/2025

Education

2014–2018	Ph.D. in Statistics , Department of Mathematics, AUTH
Thesis	Optimal experimental designs with factors at two or more levels
Supervisor	Nikolaos Farmakis
2012–2014	M.Sc. in Statistics and Modeling , Department of Mathematics, AUTH
Thesis	Study of probability density functions of decreasing forms via sampling
Supervisor	Nikolaos Farmakis
2007–2012	B.Sc. in Mathematics , Department of Mathematics, AUTH

Academic positions

2025–	Assistant Professor , Department of Statistics, AUEB
	Subject: Official Statistics
2022–2025	Postdoctoral Researcher , Department of Statistics, AUEB
Research topic	Optimal subdata selection for big data regression
Supervisor	Dimitris Karlis
2023–2025	Adjunct Lecturer , Department of Statistics, AUEB
2020–2023	University Fellow , Department of Statistics, AUEB
2020–2022	Academic Fellow , Department of Chemical Engineering, UoWM
2020–2021	Academic Fellow , Department of Psychology, UoWM

Teaching

Stand-alone teaching

2022–2023	Categorical Data Analysis (4th year), Department of Statistics, AUEB
2020–2023	Estimation and Hypothesis Testing (recursive) (2nd year), Department of Statistics, AUEB
2020–2023	Decision Theory (4th year), Department of Statistics, AUEB

2021–2022	Methodology of Educational Research and Statistics MSc: Pedagogy through Innovative Technologies and Biomedical Approaches, UniWA
2020–2022	Statistics (2nd year), Department of Chemical Engineering, UoWM
2020–2021	Statistics II: Introduction to Bivariate and Multivariate Analysis (2nd year) Department of Psychology, UoWM

Co-teaching

2024–2025	Official Statistics (3rd year), Department of Statistics, AUEB
2024–2025	Design and Analysis of Experiments (3rd year), Department of Statistics, AUEB
2024–2025	Introduction to Programming using R (tutorial) (1st year), Department of Statistics, AUEB
2023–2024	Multivariate Statistical Analysis (3rd year), Department of Statistics, AUEB
2023–2025	Introduction to Probabilities and Statistics using R (tutorial) (1st year) Department of Statistics, AUEB
2023–2025	Introduction to Probabilities and Statistics using R (1st year) Department of Statistics, AUEB
2023–2025	Preparatory Lectures in Statistics - FT & PT, MSc in Business Analytics, AUEB
2023–2025	Statistics for Business Analytics I (R Labs) - FT & PT, MSc in Business Analytics, AUEB
2023–2024	Estimation and Hypothesis Testing (tutorial) (2nd year), Department of Statistics, AUEB
2021–2025	Data Analysis with R (e-Learning), Department of Statistics, AUEB
2023	R Language Training, KEDIVIM, AUEB
2022	Data Analysis with R, KEDIVIM, AUEB

Monographs (in greek)

Χασιώτης, Β., & Χαλικιάς, Μ. (2024). Πειραματικοί Σχεδιασμοί και Στατιστική Ανάλυση. Κάλλιπος, Ανοιχτές Ακαδημαϊκές Εκδόσεις. DOI: doi.org/10.57713/kallipos-393.

Published articles in peer-reviewed journals

- [1] Chasiotis, V. and Karlis, D. (2025). On the selection of optimal subdata for big data regression based on leverage scores. *Journal of Statistical Theory and Practice* **19**(5). DOI: doi.org/10.1007/s42519-024-00420-4
- [2] Chasiotis, V. and Karlis, D. (2024). Subdata selection for big data regression: an improved approach. *Journal of Data Science, Statistics, and Visualisation* **4**(3). DOI: doi.org/10.52933/jdssv.v4i3.78

- [3] Karlberg, M., Chasiotis, V., Stavropoulos, Ph., Laaboudi, Chr., Mészáros, M. and Nasiopoulou, D.-Avg. (2023). An R package for automatically generating candidate correspondence tables between classifications. *The Statistical Journal of the International Association for Official Statistics* **39**(4), 995 – 1009. DOI: doi.org/10.3233/SJI-230039
- [4] Tachmatzidis, D. and Chasiotis, V. (2023). A psychological approach into the hypermodernity aspects of the Netflix series “Dark”. *Psychology and Behavioral Sciences* **12**(1), 1 – 9. DOI: doi.org/10.11648/j.pbs.20231201.11
- [5] Chasiotis, V. (2023). On optimality and construction of two-treatment circular cross-over designs. *Communications in Statistics - Theory and Methods* **52**(6), 1692 – 1701. DOI: doi.org/10.1080/03610926.2021.1937654
- [6] Chasiotis, V., Pericleous, K., Koukouvinos, C. and Kounias, S. (2022). On optimality and construction of row designs under dependence for estimating means. *Linear and Multilinear Algebra* **70**(4), 714 – 729. DOI: doi.org/10.1080/087.2020.1744504
- [7] Chasiotis, V. and Farmakis, N. (2021). Construction of the A-optimal 19×17 weighing design: Disproving the conjecture. *Journal of Applied Probability and Statistics* **16**(3), 37 – 42.
- [8] Flora, K., Georgiadou, T., Megari, K., Grigoropoulos, I. and Chasiotis, V. (2021). Resilience, fear of COVID-19 and their relationship with cognitive functioning and mood: a study on the administrative staff of the University of Western Macedonia, Greece. *Journal of Ideas in Health* **4**(Special 3), 458 – 465. DOI: doi.org/10.47108/jidhealth.Vol4.IssSpecial3.157
- [9] Chasiotis, V. and Kounias, S. (2021). Optimal two treatment circular repeated measurements designs up to four periods. *Communications in Statistics - Theory and Methods* **50**(20), 4867 – 4878. DOI: doi.org/10.1080/03610926.2020.1725824
- [10] Chasiotis, V., Chatzopoulos, A. St., Kounias, S. and Farmakis, N. (2021). On the optimality of orthogonal and balanced arrays with $N \equiv 0 \pmod{9}$ runs. *Statistical Papers* **62**, 1965 – 1980. DOI: doi.org/10.1007/s00362-020-01167-3
- [11] Makri, C., Alexias, G., Togas, C. and Chasiotis, V. (2020). Evaluation of dental anxiety and of its determinants in a Greek sample. *International Journal Of Caring Sciences* **13**(1), 791 – 803.
- [12] Chasiotis, V., Kounias, S. and Farmakis, N. (2018). The D-optimal saturated designs of order 22. *Discrete Mathematics* **341**(2), 380 – 387. DOI: doi.org/10.1016/j.disc.2017.09.005
- [13] Chasiotis, V., Kounias, S. and Farmakis, N. (2017). Upper bound on the number of multi-level columns in equally replicated optimal designs minimizing the $E(f_{NOD})$ criterion. *Statistics & Probability Letters* **129**, 269 – 274. DOI: doi.org/10.1016/j.spl.2017.06.008
- [14] Karlafti, E., Hatzitolios, A., Didangelos, T., Baltatzi, M., Koliakos, G., Kalkavouri, A., Liorda, E., Chasiotis, V. and Savopoulos, C. (2016). The effect of moxonidine on lipid profile of patients with arterial hypertension, grade 1 and 2. *Atherosclerosis* **252**, e4 – e5. DOI: doi.org/10.1016/j.atherosclerosis.2016.07.246

Published articles in peer-reviewed conference proceedings

- [1] Chasiotis, V. and Karlis, D. (2023). Subdata selection for big data regression based on leverage scores. In: *Proceedings of the 35th Panhellenic and 1st International Statistics Conference*, Greece, Athens, 122–135.
- [2] Chasiotis, V. and Karlis, D. (2022). On the selection of optimal subdata for big data regression. In: *Proceedings of the 34th Annual Conference of Greek Statistical Institute*, Greece, Athens, 200–215.
- [3] Χασιώτης, Β., Χατζόπουλος, Σ. και Κουνιάς, Σ. (2018). Βέλτιστοι 3^m παραγοντικοί σχεδιασμοί εκτιμητικής τάξης IV με $N \equiv 0 \pmod{3}$ παρατηρήσεις. Σε: *Πρακτικά 31ου Πανελληνίου Συνεδρίου Στατιστικής*, Ελλάδα, Λαμία, 259–264.
- [4] Chasiotis, V., Kounias, S. and Farmakis, N. (2016). Fractional factorial designs and orthogonal arrays. In: *Proceedings of the 29th Annual Conference of Greek Statistical Institute*, Greece, Thessaloniki-Naousa, 260–270.
- [5] Χασιώτης, Β., Κουνιάς, Σ. και Φαρμάκης, Ν. (2015). Βέλτιστοι σχεδιασμοί για την εκτίμηση των αντιθέσεων σε 2^k κλασματικούς σχεδιασμούς. Σε: *Πρακτικά 28ου Πανελληνίου Συνεδρίου Στατιστικής*, Ελλάδα, Αθήνα, 318–325.
- [6] Χασιώτης, Β., Φαρμάκης, Ν. και Κουνιάς, Σ. (2015). 2^k παραγοντικοί σχεδιασμοί – Κατασκευή του κορεσμένου βέλτιστου σχεδιασμού με 22 παρατηρήσεις. Σε: *Πρακτικά 28ου Πανελληνίου Συνεδρίου Στατιστικής*, Ελλάδα, Αθήνα, 326–337.

Presentations at conferences

- [1] *18th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics (CFE-CMStatistics 2024)*, December 2024, London, UK. “Variable shrinkage and subdata selection in big data” (Lin Wang & Dimitris Karlis).
- [2] *Statistics@Naples*, June 2023, Naples, Italy. “Subdata selection for big data regression based on leverage scores” (Dimitris Karlis).
- [3] *36th Panhellenic and 2nd International Statistics Conference*, May 2024, Kozani, Greece. “Supervised statistical (machine) learning for domain estimation with business survey data” (Nikos Tzavidis, Chiara Bocci, Paul Smith).

Invited Speaker

2024	Seminar, Department of Statistics and Insurance Science, UNIPI, Piraeus, Greece
2023	2nd Workshop: Data Science in Decision-Making Process in Uncertainty, Department of Mathematics, UPatras, Patra, Greece
2022	AUEB Stats Research Seminars/Webinars, Department of Statistics, AUEB, Athens, Greece

Prizes - Awards

2022–2023	Award for excellent performance in teaching Decision Theory, Department of Statistics, AUEB
2021–2022	Excellent performance in teaching Estimation and Hypothesis Testing (recursive), Department of Statistics, AUEB
2020–2022	Excellent performance in teaching Decision Theory, Department of Statistics, AUEB

Military service

2019–2020	Fulfilled
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