Danai Deligeorgaki KTH, Department of Mathematics, danaide@kth.se Stockholm, Sweden **EDUCATION** KTH Royal Institute of Technology: 08/20-PhD in Combinatorics and Artificial Intelligence Supervisor: Liam Solus 09/18-10/19 Imperial College London: MSc in Pure Mathematics (70.73, "Distinction") MSc project in Algebraic Graph Theory with Prof. Martin Liebeck Onassis Scholar: £13.100 awarded on academic merit 09/13-03/18 Aristotle University of Thessaloniki: BSc in Mathematics (8.83, "Excellent") Thesis in Algebraic Statistics with Prof. Hara Charalambous (link) Project in Formal Language Theory with Prof. George Rahonis 4th General Lykeio of Alexandroupolis: 09/10-06/13 Graduation (19.2, "Excellent") PUBLICATIONS AND PREPRINTS M. M. Bayer, S. Borgwardt, T. Chambers, S. Daugherty, A. Dawkins, D. Deligeorgaki, H.-C. Liao, T. McAllister, A. Morrison, G. Nelson, A. R. Vindas-Meléndez, Combinatorics of generalized parking-function polytopes, arXiv:2403.07387 (submitted, 2024) D. Deligeorgaki, D. McGinnis, A.R. Vindas-Meléndez, Ehrhart Positivity of Panhandle Matroids and a Bound for Paving Matroids, arXiv:2210.12271 (submitted, 2023) M. Beck, D. Deligeorgaki, M. Hlavacek, J. Valencia-Porras, Inequalities for f*-vectors of Lattice Polytopes, arXiv:2210.12271 (accepted in Advances in Geometry, 2023) M. Beck, D. Deligeorgaki, M. Hlavacek, J. Valencia-Porras, Extended abstract: Inequalities for f^* -vectors of Lattice Polytopes, to appear in the Proceedings of FPSAC (2023) independence structure of Bayesian networks, arXiv:2210.00822 (accepted in Algebraic Statistics, 2023)

- D. Deligeorgaki, A. Markham, P. Misra, L. Solus, Combinatorial and algebraic perspectives on the marginal
- A. Markham, D. Deligeorgaki, P. Misra, L. Solus, A Transformational Characterization of Unconditionally Equivalent Bayesian Networks, 11th International Conference on Probabilistic Graphical Models (PGM 2022)
- D. Deligeorgaki, Smallest Graphs with Given Automorphism Groups, Journal of Algebraic Combinatorics (open access), DOI: 10.1007/s10801-022-01125-2 (2022)

REFEREE SERVICE

Article review for <i>Order</i>	2023
Article review for Computational Methods and Function Theory	2024

TEACHING

Teaching Assistant:

Teaching assistant for "Differential Equations" at KTH	2020-2022
Teaching assistant for "Discrete Mathematics" at KTH	2023-2024

Voluntary tutoring:

2016-2017 Teaching weekly exercises for the undergraduate course 'Algebraic Structures II' at AUTH

INSTITUTIONAL ACTIVITIES

SCI Newsletter (10% occupation): Newsletter editor for the school of Engineering Sciences (SCI) at KTH	05/21-
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PhD representative (9% occupation): SCI PhD representative for the program "PhD in Pure Mathematics" at KTH	01/21-01/22
ORGANIZATIONAL ACTIVITIES	
4th Graduate Student Meeting on Applied Algebra and Combinatorics (co-organizer)	04/23
${\bf SCI~School~(KTH)~Science~Communication~workshops~with~Artesc~(main~organizer)}$	11/21
CONFERENCE TALKS	
5th Graduate Student Meeting in Applied Algebra and Combinatorics (GSMAAC24) (Germany)	03/24
Séminaire Lotharingien de Combinatoire 91 (Spain)	03/24
Joint Mathematical Meetings (JMM) (San Francisco, USA)	03/24
SIAM Conference on Applied Algebraic Geometry (AG23) (Netherlands)	07/29
Geometry meets Combinatorics in Bielefeld (Germany)	,
28th Nordic Congress of Mathematicians (NCM) (Finland)	09/22 $08/22$
2nd Conference for Greek Mathematicians (Greece)	,
Nordic Combinatorial Conference (NORCOM) 2022 (Norway)	07/22
Algebraic Statistics 2022 (Hawaii, USA)	06/22 $05/22$
POSTER PRESENTATIONS	03/22
AlCoVE: an Algebraic Combinatorics Virtual Expedition (online)	06/29
Formal Power Series and Algebraic Combinatorics (FPSAC) 2023 (California, USA)	06/23
CIMPA summer school "Mathematical Methods in Data Analysis" 2022 (Albania)	07/23
Combinatorial, Computational, and Applied Algebraic Geometry (CCAAGS) 2022 (Seattle, USA)	07/22 $06/22$
WORKSHOPS	
Algebraic Statistics and Our Changing World - long IMSI program (Chicago, USA) Computations and Data in Algebraic Statistics - BIRS workshop (Oaxaca, Mexico) Graduate Research Workshop in Combinatorics (GRWC) 2023 (Wyoming, USA) Research Encounters in Algebraic and Combinatorial Topics (REACT) workshop (online)	09-12/23 05/2 07-08/2 2020-202
SEMINAR TALKS	
Graduate Online Combinatorics Colloquium (GOCC) (virtual talk)	05/24
Combinatorics seminar (UC Berkeley)	02/24
Algebra and Discrete Mathematics seminar (UC Davis)	02/24
Combinatorics and Geometry seminar (University of Washington)	01/24
Algebra, Geometry, and Combinatorics Seminar (San Francisco State University)	11/23
Discrete Geometry graduate student seminar (FU Berlin)	07/22
WASP Kickoff 2022 (virtual talk)	01/29