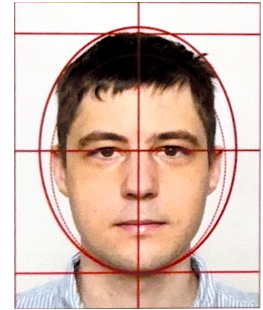


Naso Evangelou-Oost

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GitHub: github.com/nasosev



EDUCATION

The University of Queensland

St Lucia, AU

Ph.D. in Computer Science

- Thesis: “Concurrent valuation algebras”
- Advisors: Larissa Meinicke, Ian J. Hayes

The University of Queensland

St Lucia, AU

B.Math. (Honours Class I), GPA: 7.0/7.0

- Thesis: “Homological aspects of Morse-Bott theory”
- Advisor: Joseph F. Grotowski

University of Tasmania

Sandy Bay, AU

B.Sci. in Pure Mathematics (Honours) (incomplete; 80% coursework completed), GPA: 7.0/7.0

- Thesis: “Combinatorial structures on non-crossing partitions”
- Advisor: Des G. FitzGerald

University of Tasmania

Sandy Bay, AU

B.Sci. in Pure Mathematics, GPA Maj.: 6.9/7.0

EXPERIENCE

Sirius-beta Labs

Brisbane, AU

Mathematician & Development Lead

2022–

- Lead a project funded by the Defence Science and Technology Group (DST) through their Next Generation Technology Fund (NGTF)
- This project falls under an Industry Competitive Evaluation Research Agreement (ICERA), managed by the Information Warfare STaR Shot initiative

Oneironaut

Brisbane, AU

Founder, Mathematician & AI Engineer

2022–

- Independent consultancy for mathematical research and software development
- Utilising artificial intelligence, applied category theory, formal methods, functional programming

Independent Consultant

AU

Mathematician, Developer, Technician, Tutor

2014–2021

- Independent consultant for mathematical research, information technology, and education

An Tien AMA Dalat

VN

Teacher of English as a Foreign Language

2013–2014

- Experienced TOEFL teacher skilled in preparing students for English language proficiency exams and delivering engaging lessons tailored to meet individual needs

PUBLICATIONS

- [1] **Evangelou-Oost, Athanasios**, “Concurrent valuation algebras”, To appear, PhD thesis, The University of Queensland, 2025.
- [2] T. Goranson, B. Cardier, M. Hancock, **Evangelou-Oost, N.**, B. J. Seligmann, M. Garcia, *et al.*, “User affordances to engineer open world enterprise dynamics”, in *Interdependent Human-Machine Teams: The Path to Autonomy*, W. F. Lawless, R. Mittu, D. A. Sofge, and H. Fouad, Eds., Elsevier, 2024.
- [3] I. J. Hayes, L. Meinicke, and **Evangelou-Oost, N.**, “Restructuring a concurrent refinement algebra”, in *Proceedings of the 2024 Conference on Relational and Algebraic Methods in Computer Science (RAMiCS 2024)*, 2024.
- [4] **Evangelou-Oost, Naso**, L. Meinicke, C. Bannister, and I. J. Hayes, “Trace models of concurrent valuation algebras”, in *Formal Methods and Software Engineering*, Y. Li and S. Tahar, Eds., Singapore: Springer Nature Singapore, 2023, pp. 118–136, ISBN: 978-981-99-7584-6.
- [5] **Evangelou-Oost, Nasos**, C. Bannister, and I. J. Hayes, “Contextuality in distributed systems”, in *Relational and Algebraic Methods in Computer Science*, R. Glück, L. Santocanale, and M. Winter, Eds., Cham: Springer International Publishing, 2023, pp. 52–68, ISBN: 978-3-031-28083-2.
- [6] I. Dolinka, J. East, **Athanasios Evangelou**, D. FitzGerald, N. Ham, J. Hyde, N. Loughlin, and J. D. Mitchell, “Enumeration of idempotents in planar diagram monoids”, *Journal of Algebra*, vol. 522, pp. 351–385, 2019, ISSN: 0021-8693. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0021869318306550>.
- [7] I. Dolinka, J. East, **Athanasios Evangelou**, D. FitzGerald, N. Ham, J. Hyde, and N. Loughlin, “Enumeration of idempotents in diagram semigroups and algebras”, *Journal of Combinatorial Theory, Series A*, vol. 131, pp. 119–152, 2015, ISSN: 0097-3165. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0097316514001563>.

TEACHING

- | | |
|--|------------|
| • Teaching Assistant at The University of Queensland
<i>Functional & Logic Programming (COMP 3400)</i> | 2021, 2022 |
| • Teaching Assistant at The University of Queensland
<i>Reasoning About Programs (CSSE 3100)</i> | 2021, 2022 |
| • Teaching Assistant at The University of Queensland
<i>Concurrency: Theory and Practice (CSSE 7610)</i> | 2021 |

SKILLS

- **Programming:** Haskell, F#, Python, Isabelle/HOL, Mathematica
- **Machine Learning:** Scikit-Learn, Keras, PyTorch
- **Tools/Techs:** SQL, Git, L^AT_EX
- **Web:** TypeScript

LANGUAGES

- **English:** Mother tongue
- **French:** Proficient, DALF C1
- **Vietnamese:** Beginner
- **German:** Beginner

SCHOLARSHIPS AND AWARDS

- | | |
|---|------------|
| • Ethel Raybould Prize in Mathematics, The University of Queensland | 2020 |
| • Category 1 Earmarked RTP scholarship, The University of Queensland | 2020–2023 |
| • Dean’s Commendation for Academic Excellence, The University of Queensland | 2018, 2019 |

- Tasmania Honours Scholarship, University of Tasmania 2012
- Dean's Roll of Excellence, University of Tasmania 2010, 2012

CONTRIBUTED TALKS

- The 24th International Conference on Formal Engineering Methods (ICFEM), Brisbane 2023
Trace models of concurrent valuation algebras
- School of Electrical Engineering & Computer Science (EECS), Research Seminar, The University of Queensland 2023
Concurrent valuation algebras
- Formal Methods in Australia/New Zealand (FMOZ), The University of Queensland 2023
Trace models of concurrent valuation algebras
- Relational and Algebraic Methods in Computer Science (RAMiCS), Technologiezentrum Augsburg 2023
Contextuality in distributed systems
- School of Electrical Engineering & Computer Science (EECS), Research Seminar, The University of Queensland 2023
Contextuality in distributed systems
- Formal Methods in Australia/New Zealand (FMOZ), The University of Queensland 2022
Modelling distributed specifications with simplicial sets
- School of Electrical Engineering & Computer Science (EECS), Research Seminar, The University of Queensland 2021
Progress and sheaves in concurrent refinement algebra
- School of Mathematics & Physics (SMP), Analysis Seminar, The University of Queensland 2019
Homological aspects of Morse-Bott theory
- School of Mathematics & Physics (SMP), Special Topics, The University of Queensland 2019
Hodge theory
- School of Mathematics & Physics (SMP), Special Topics, The University of Queensland 2018
Čech cohomology of a cover
- School of Mathematics and Physics (SMP), Quantum Field Theory Seminar, The University of Queensland 2018
Representation theory of semisimple Lie algebras
- School of Natural Sciences, Mathematics Seminar, University of Tasmania 2015
Combinatorial structures on non-crossing partitions

ORGANISATION

- Co-organiser of a Category Theory reading group with Angela Wren, The University of Queensland 2021
Text: "Basic Category Theory" by Tom Leinster
- Organiser of a Topos Theory reading group, The University of Queensland 2020
Text: "Sheaves in Geometry and Logic: A First Introduction to Topos Theory" by Saunders Mac Lane and Ieke Moerdijk