

Athanasios (Naso) Evangelou-Oost



Website: nasosev.github.io
Email: naso@oneironaut.dev
LinkedIn: [nasosev](https://www.linkedin.com/in/nasosev)
GitHub: github.com/nasosev

EDUCATION

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| The University of Queensland Ph.D. in Computer Science (in progress) <ul style="list-style-type: none">– Thesis: “Concurrent valuation algebras”– Advisors: Ian J. Hayes, Larissa Meinicke | St Lucia, AU 2020–2023 |
| The University of Queensland B.Math. (Honours Class I), GPA: 7.0/7.0 <ul style="list-style-type: none">– Thesis: “Homological aspects of Morse-Bott theory”– Advisor: Joseph F. Grotowski | St Lucia, AU 2018–2019 |
| University of Tasmania B.Sci. in Pure Mathematics (Honours) (incomplete; 80% coursework completed), GPA: 7.0/7.0 <ul style="list-style-type: none">– Thesis: “Combinatorial structures on non-crossing partitions”– Advisor: Des G. FitzGerald | Sandy Bay, AU 2014–2015 |
| University of Tasmania B.Sci. in Pure Mathematics, GPA Maj.: 6.9/7.0 | Sandy Bay, AU 2010–2012 |

EXPERIENCE

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| Oneironaut Founder, Mathematician & Software Developer Lead <ul style="list-style-type: none">– Independent consultancy for mathematical research and software development– Utilising artificial intelligence, applied category theory, formal methods, functional programming | Brisbane, AU 2022– |
| Sirius-beta Mathematician & Software Developer Lead <ul style="list-style-type: none">– Currently leading 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 | Brisbane, AU 2022– |
| Independent Consultant Mathematician, Developer, Technician, Tutor <ul style="list-style-type: none">– Independent consultant for mathematical research, information technology, and education | AU 2014–2021 |
| AMA Dalat Teacher of English as a Foreign Language | VN 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] **Naso Evangelou-Oost**, L. Meinicke, C. Bannister, and I. J. Hayes, *Trace models of concurrent valuation algebras*, 2023. arXiv: 2305.18017 [cs.LG]. [Online]. Available: <https://arxiv.org/abs/2305.18017>, Accepted; to appear in Springer Lecture Notes in Computer Science series.
- [2] **Evangelou-Oost, Naso**, 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. [Online]. Available: https://link.springer.com/chapter/10.1007/978-3-031-28083-2_4.
- [3] 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>.
- [4] 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 2021, 2022
Functional & Logic Programming (COMP 3400)
- **Teaching Assistant** at The University of Queensland 2021, 2022
Reasoning About Programs (CSSE 3100)
- **Teaching Assistant** at The University of Queensland 2021
Concurrency: Theory and Practice (CSSE 7610)

SKILLS

- **Programming:** Haskell, F#, Python, Mathematica, Isabelle/HOL
- **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

- School of Electrical Engineering & Computer Science (EECS), Research Seminar, The University of Queensland 2023
Concurrent valuation algebras
- Formal Methods in Australia/New Zealand, The University of Queensland 2023
Trace models of concurrent valuation algebras
- Relational and Algebraic Methods in Computer Science, 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, The University of Queensland 2022
Modelling distributed specifications with simplicial sets
- 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