

# Athanasios (Naso) Evangelou-Oost

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

## EDUCATION

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### The University of Queensland

St Lucia, AU

Ph.D. in Computer Science (in progress)

2020–2023

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

### The University of Queensland

St Lucia, AU

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

2018–2019

- 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

2014–2015

- 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

2010–2012

## EXPERIENCE

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### Oneironaut

Brisbane, AU

Founder, Mathematician & Software Developer Lead

2022–

- Independent consultancy for mathematical research and software development

### Sirius-beta

Brisbane, AU

Mathematician & Software Developer Lead

2022–

- 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

### Independent Consultant

AU

Mathematician, Developer, Technician, Tutor

2014–2021

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

### 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

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- [1] **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.
- [2] **Nasos Evangelou-Oost**, C. Bannister, L. Meinicke, and I. J. Hayes, *Trace models of concurrent valuation algebras*, 2023. arXiv: 2305.18017 [cs.LG].
- [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.
- [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.

## TEACHING

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- **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

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- **Programming:** Haskell, F#, Python, Mathematica, Isabelle/HOL
- **Machine Learning:** Scikit-Learn, Keras, PyTorch
- **Tools/Techs:** SQL, Git, L<sup>A</sup>T<sub>E</sub>X
- **Web:** TypeScript

## LANGUAGES

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

## SCHOLARSHIPS AND AWARDS

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- 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

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- 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

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- 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*