





NASOS EVANGELOU-OOST

mathematical programmer

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ABOUT

I am seeking opportunities to apply and extend my knowledge and skills gained through studies and tutoring in a relevant role in industry. My main interest is applying mathematics to develop powerful and reliable software for solving complex real-world problems. I have full work rights in Australia (AU citizen).

PROGRAMMING LANGUAGES

F#, OCaml, Haskell, C#, Java, MATLAB, Mathematica, R, SQL, TypeScript, Python.

FRAMEWORKS AND TOOLS

.NET, JetBrains suite, PyTorch, SageMath, TensorFlow, Unity, Visual Studio.

EDUCATION

2020 – 2023 ongoing	Doctor of Philosophy in Computer Science Thesis: Topos semantics for concurrent refinement algebras (working title).	University of Queensland
2018 – 2019	Bachelor of Mathematics (Honours), 1st Class Thesis: <i>Homological aspects of Morse-Bott theory</i> . Courses: abstract algebra & number theory, advanced algebra, algebraic methods of mathematical physics, algebraic topology, functional analysis, riemannian geometry. GPA Cum. 7.0/7.0.	University of Queensland
2014 – 2015 incomplete	Bachelor of Science (Honours) in Mathematics Courses: analysis, functional analysis, measure theory, ring theory. (80% coursework completed.) GPA Cum. 7.0/7.0.	University of Tasmania
2010 – 2012	Bachelor of Science in Mathematics Courses (selected): abstract algebra, algorithms, calculus of variations, complex analysis, differential equations & linear algebra, dynamical systems, ICT project management, operations research, probability & statistics. GPA Maj. 6.9/7.0.	University of Tasmania

EXPERIENCE

2014 –	Private tutor Tutor of tertiary students in computing, mathematics, and statistics. TutorFinder ID: 56085.	
2015 – 2018	IT consultant Assisted the company director in technology decisions, provision of company-wide technical support, development and management of websites, administration of CMS and email systems.	The Pen Shoppe/The Model Shoppe, Brisbane
2013 – 2014	English teacher Teacher of FCE, IELTS, TOEIC, and TOEFL candidates.	American Academy, Dalat

PUBLICATIONS

- [1] Igor Dolinka et al. 'Enumeration of idempotents in planar diagram monoids'. In: *Journal of Algebra* 522 (2019), pp. 351–385. ISSN: 0021-8693. URL: <http://www.sciencedirect.com/science/article/pii/S0021869318306550>.
- [2] Igor Dolinka et al. 'Enumeration of idempotents in diagram semigroups and algebras'. In: *Journal of Combinatorial Theory, Series A* 131 (2015), pp. 119–152. ISSN: 0097-3165. URL: <http://www.sciencedirect.com/science/article/pii/S0097316514001563>.

TALKS

May 2019	<i>Homological aspects of Morse-Bott theory</i>	UQ analysis seminar
May 2019	<i>Hodge theory</i>	UQ riemannian geometry reading course
Oct 2018	<i>Čech cohomology of a cover</i>	UQ algebraic topology reading course
Mar 2018	<i>Representation theory of semisimple Lie algebras</i>	UQ quantum field theory seminar
May 2015	<i>Combinatorial structures on non-crossing partitions</i>	UTAS undergraduate research

AWARDS

(2019) UQ Dean's Commendation for Academic Excellence
(2018) UQ Dean's Commendation for Academic Excellence
(2012) UTAS Tasmania Honours Scholarship
(2012) UTAS Dean's Roll of Excellence
(2010) UTAS Dean's Roll of Excellence

WORKSHOPS

(2019) ANU Computational Topology (WinCompTop2) AMSI sponsored participant

AFFILIATIONS

Applied Algebraic Topology Research Network
F# Software Foundation

LANGUAGES

en – native
fr – C1