

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 TOELF 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>
May 2019	<i>Hodge theory</i>
Oct 2018	<i>Čech cohomology of a cover</i>
Mar 2018	<i>Representation theory of semisimple Lie algebras</i>
May 2015	<i>Combinatorial structures on non-crossing partitions</i>

UQ analysis seminar
UQ riemannian geometry reading course
UQ algebraic topology reading course
UQ quantum field theory seminar
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