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

EDUCATION

2020 – 2023 ongoing
Doctor of Philosophy in Computer Science — **University of Queensland**
Thesis: Topos semantics for concurrent refinement algebras (working title).

2018 – 2019
Bachelor of Mathematics (Honours), 1st Class — **University of Queensland**
Thesis: *Homological aspects of Morse-Bott theory*.
Courses: abstract algebra & number theory, advanced algebra, algebraic methods of mathematical physics, algebraic topology, functional analysis, riemannian geometry.
`GPA Cum. 7.0/7.0.`

2014 – 2015 incomplete
Bachelor of Science (Honours) in Mathematics — **University of Tasmania**
Courses: analysis, functional analysis, measure theory, ring theory. (80% coursework completed.)
`GPA Cum. 7.0/7.0.`

2010 – 2012
Bachelor of Science in Mathematics — **University of Tasmania**
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.`

EXPERIENCE

2014 –
Private tutor
Tutor of tertiary students in computing, mathematics, and statistics. TutorFinder ID: 56085.

2015 – 2018
IT consultant — **The Pen Shoppe/The Model Shoppe, Brisbane**
Assisted the company director in technology decisions, provision of company-wide technical support, development and management of websites, administration of CMS and email systems.

2013 – 2014
English teacher — **American Academy, Dalat**
Teacher of FCE, IELTS, TOEIC, and TOELF candidates.

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/S0021869318306`

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

Updated 29 December 2020.