

ADRIAN W. DUDEK
Mathematical Sciences Institute
Australian National University
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EDUCATION

Doctor of Philosophy *November 2012 -*
The Australian National University

Bachelor of Science
First Class Honours in Mathematics
Majors: Pure Mathematics, Applied Mathematics *2007 - 2010*
The University of Western Australia

ACADEMIC AWARDS/GRANTS/HONOURS

Top Four Finalist for the 2015 ANU Science Leadership Award *2015*
AustMS Student Support Grant to attend the Annual Meeting *2014*
AMSI Travel Grant to attend the Number Theory Down Under conference *2014*
ANU-IARU Travel Grant to Oxford University *2014*
Award for the best student talk at the AMSI Winter School *2014*
B. H. Neumann Prize for the best student talk at the Annual AustMS Meeting *2013*
People's Choice Award in the ANU Three Minute Thesis Grand Final *2013*
Invitation to attend the inaugural Heidelberg Laureate Forum *2013*
SIEF Travel Grant to attend the Heidelberg Laureate Forum *2013*
Australian Postgraduate Award *Jan 2013-*
ANU HDR Supplementary Scholarship *Nov 2012-*
ANU Domestic PhD Scholarship *Nov 2012-Jan 2013*
UWA Organisational and Staff Development Travel and Conference Grant *2011*
UWA Mathematics Honours Seminar Prize for best talk *2012*
Three Special Prizes in the Blakers Mathematics Contest *2011*
UWA SWANS Scholarship *2007-2009*
UWA Excellence Award *2007*

EMPLOYMENT HISTORY

Tutor *Mathematical Sciences Institute - ANU* *February 2013 -*

Teaching Assistant (*Melba-Copland Secondary School*) *May 2014 -*

Lecturer (*UWA School of Mathematics and Statistics*) *Jan 2011 - Aug 2012*

Numeracy Skills Advisor (*UWA*) *Jan 2011 - Aug 2012*

TUTORING HISTORY

MATH3301 Number Theory and Cryptography - ANU *Semester 2 2013*

MATH1115 Mathematics and Applications I (Honours) - ANU *Semester 1 2014*

MATH1013 Mathematics and Applications I - ANU *Semester 2 2013*

MATH1115 Mathematics and Applications I (Honours) - ANU *Semester 1 2013*

MATH1001 Mathematical Methods I - UWA *Semester 1 2012*

PUBLICATIONS

On the Riemann Hypothesis and the Difference Between Primes. *Int. J. Number Theory*, (to appear)
Almost-Ramanujan Graphs and Prime Gaps. *European J. Combin.* 43 (2015), 204–209.
(with D. Platt) On Solving a Curious Inequality of Ramanujan. *Exp. Math.*, (to appear)
An Explicit Result for $|L(1 + it, \chi)|$. *Funct. Approx. Comment. Math.*, (to appear)

SUBMITTED PAPERS

An Explicit Result for Primes Between Cubes. *Preprint*, 2014
Some Notes on Digit Strings in the Primes. *Preprint*, 2014
On the Sum of a Prime and a Square-free Number. *Preprint*, 2014
A Note on the Spectrum and Expansion of Generalised Petersen Graphs. *Preprint*, 2014
A New Proof of Euclid's Theorem. *Preprint*, 2015
Gaps Between Almost-Primes and a Construction of Almost-Ramanujan Graphs. *Preprint*, 2015
(with L. Grenie and G. Molteni) Primes in Explicit Short Intervals. *Preprint*, 2015

PROGRAMMING LANGUAGES

Received a mark of 82 HD in CITS1200 Java Programming at UWA
Received a mark of 84 HD in CITS1210 C Programming at UWA
Received a mark of 85 HD in MATH2200 Applied Mathematics (Mathematica) at UWA

OUTREACH ACTIVITIES

Gave a talk to year 12 maths students at Gunghalin College	<i>Aug 2014</i>
Supervised a student in the ACE Science Mentors program at Melrose High School	<i>Feb 2014 -</i>
Currently a senior community ambassador for mathematics with ANU Student Equity	<i>Feb 2013 -</i>
Gave the talk "What does a mathematician do" to year 9 students at Melrose High School	<i>2014</i>
Written popular articles on maths for <i>The Conversation</i>	<i>Mar 2013-</i>
Appeared on ABC Adelaide radio to talk about <i>The Birthday Problem</i>	<i>April 2013</i>
Convenor of the UWA Junior Maths Seminar	<i>2012</i>
Ran maths workshops with Aspire UWA for students from low SES schools	<i>2012</i>
Presented at the UWA Introduction to Modern Mathematics day	<i>2012</i>
Member of the UWA Student Services Equity Group	<i>2011-2012</i>
Coordinated maths activities for students attending the UWA Campus Challenge	<i>2012</i>
Taught and demonstrated for students over the summer at The Science Experience	<i>2011</i>
Instructed and supervised at the WA Junior Mathematics Olympiad	<i>2007-2009</i>
Ran workshops on study skills and learning at the UWA Aspire Year 10 Camp	<i>2007</i>

REFERENCES

Dr Timothy Trudgian
ARC Research Fellow
Mathematical Sciences Institute
The Australian National University
[timothy.trudgian\[at\]anu.edu.au](mailto:timothy.trudgian@anu.edu.au)

Winthrop Professor Cheryl Praeger
ARC Federation Fellow
Centre for the Mathematics of Symmetry and Computation
The University of Western Australia
[cheryl.praeger\[at\]uwa.edu.au](mailto:cheryl.praeger@uwa.edu.au)