

CURRICULUM VITAE

February 5, 2016

Dr Amy Glen

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Research Areas: COMBINATORICS, DISCRETE MATHEMATICS, NUMBER THEORY

I am especially interested in *combinatorics on words*, from algebraic and geometric points of view, and its applications in Number Theory. Recently I have been working on problems involving the following topics, many of which have important applications to a wide variety of other scientific fields, ranging from theoretical computer science to theoretical physics and molecular biology.

Combinatorics on finite and infinite words:

Sturmian and episturmian words; Fibonacci and k -bonacci words; Thue-Morse word and its generalisations; lexicographic orderings; Lyndon words; return words; quasiperiodicity; palindromic and periodic factors of infinite words; balanced words; factor complexity; conjugation of morphisms; property-preserving morphisms; infinite words generated by morphisms; automatic sequences; theory of codes; invertible substitutions; symbolic dynamical systems.

Number Theory & Algebra:

continued fractions; transcendence theory; expansions of natural numbers in non-standard bases; numeration systems; distribution of real numbers modulo 1; free monoids; semigroups; matrix theory; Nielsen transformations; free groups; automorphisms of free groups; primitive elements of free groups.

In particular, much of my research to date has focussed on *repetitions* (including *abelian repetitions*) and *periodicity* (including *quasiperiodicity*) in finite and infinite words (particularly *Sturmian* and *episturmian words*, including the well-known *Fibonacci word*, and also the *Thue-Morse sequence*), as well as other combinatorial regularities and patterns occurring in words, such as recurring *factors*, *Lyndon words*, *palindromes*, and related notions of *word complexity*, *lexicographic ordering*, and *distribution of real numbers modulo 1* from a combinatorial perspective.

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Personal Details

Full Name: DR AMY GLEN

Place of Birth: Riverland, South Australia

Nationality: AUSTRALIAN

Education

2003–2006

PhD in Pure Mathematics

The University of Adelaide, Australia

Thesis: *On Sturmian and episturmian words, and related topics*

Awarded: August 1, 2006

Co-supervisors: Dr Alison Wolff, Dr Robert Clarke

Reviewers:

- Jeffrey O. Shallit (University of Waterloo, Canada)
- Jacques Justin (LIAFA, Université Paris Diderot – Paris 7, France)

2002

First Class Honours in Pure Mathematics

The University of Adelaide, Australia

Thesis: *On the period length of pseudorandom number sequences*

Awarded: December 2002

Supervisor: Dr Alison Wolff

1999–2001

Bachelor of Science (Mathematical & Computer Sciences)

The University of Adelaide, Australia

Major: Pure Mathematics

Graduated: December 2001

1994–1998

South Australian Certificate of Education (SACE)

Loxton High School, South Australia

Graduated: December 1998 (TER: 95.55)

Academic Employment

Since July 2009

Lecturer* (Level B) in Mathematics & Statistics

School of Engineering & Information Technology, *Murdoch University*

Sept 2008–June 2009

Postdoctoral Researcher & Lecturer

The Mathematics Institute, *Reykjavík University*, Iceland

Dec 2006–Sept 2008

CRM-ISM[†] Postdoctoral Research Fellow

Laboratoire de Combinatoire d'Informatique et Mathématique, *Université du Québec à Montréal*, Canada

2006

Associate Lecturer (Level A)

School of Mathematical Sciences, *The University of Adelaide*

2005–2006

Lecturer and Instructor/Tutor in Mathematics & Statistics (casual)

School of Mathematical Sciences, *The University of Adelaide*

2003–2005

Instructor/Tutor and Teacher in Mathematics & Statistics (casual)

Degree Transfer Program, *Bradford College*, Adelaide, South Australia

2001–2004

Instructor/Tutor in Mathematics & Statistics (casual)

School of Mathematical Sciences, *The University of Adelaide*

Research Grants

2014–2016 SIR WALTER MURDOCH DISTINGUISHED COLLABORATOR SCHEME: \$10,000 per year

With *Professor Bill Smyth* (McMaster University, Canada)

2009–2011 ICELANDIC GRANT FOR EXCELLENCE (co-recipient): 24.6 million ISK/year

Combinatorics on Words and Permutations (grant no. 090038011)

2006 CANT 2006 CONFERENCE GRANT: €1000

European Commission

2005 CATEGORY 1 GRANT IMPROVEMENT SCHEME: \$17,256 AUD

Faculty of Engineering, Computer and Mathematical Sciences

The University of Adelaide, Australia

*Corresponds approximately to 'Assistant Professor' in North America.

[†]CRM: Centre de Recherches Mathématiques; ISM: Institut des Sciences Mathématiques.

Honours, Awards & Scholarships

Oct–Dec 2015 SCIENCE DIRECT TOP 25 HOTTEST ARTICLES^{††}

The paper "A. Glen, J. Jusitin, S. Widmer, L.Q. Zamboni, *Palindromic richness*, *European J. Combin.* 30 (2008), 510–531" was named amongst the top 25 hottest articles in the *European Journal of Combinatorics*.

July–Sept 2015 SCIENCE DIRECT TOP 25 HOTTEST ARTICLES[‡]

The paper "A. Glen, F. Levé, *Generalized trapezoidal words*, *Journal of Combinatorial Theory, Series A* 136 (2015), 96–125" was named amongst the top 25 hottest articles in the *Journal of Combinatorial Theory, Series A*.

2014 VICE CHANCELLOR'S AWARD FOR TEACHING EXCELLENCE^{§**}

Murdoch University's highest award for General Teaching Excellence in a Discipline (\$4,000 prize money)

July–Sept 2013 SCIENCE DIRECT TOP 25 HOTTEST ARTICLES[†]

The paper "A. Glen, J. Simpson, *The total run length of a word*, *Theoretical Computer Science* 501 (2013), 41–48" was named amongst the top 25 hottest articles in the journal *Theoretical Computer Science*.

2013 NOMINATIONS FOR 2013 VICE CHANCELLOR'S AWARDS FOR TEACHING EXCELLENCE

- ▶ Nominated by 11 students through a standard Teaching Survey for the unit MAS167 (Computational Mathematics) at *Murdoch University* in Semester 1, 2013.
- ▶ Nominated on the basis of being in the top 10% of teaching staff in the student surveys of teaching at *Murdoch University* in 2013.

2012 NOMINATIONS FOR 2012 VICE CHANCELLOR'S AWARDS FOR TEACHING EXCELLENCE

- ▶ Nominated by 13 students through a standard Teaching Survey for the unit MAS161 (Calculus & Matrix Algebra) at *Murdoch University* in Semester 2, 2012.

2011 NOMINATION FOR 2011 VICE CHANCELLOR'S AWARDS FOR TEACHING EXCELLENCE

Oct–Dec 2008 SCIENCE DIRECT TOP 25 HOTTEST ARTICLES[‡]

The paper "A. Glen, J. Jusitin, S. Widmer, L.Q. Zamboni, *Palindromic richness*, *European J. Combin.* 30 (2008), 510–531" was named amongst the top 25 hottest articles in the *European Journal of Combinatorics*.

2006–2008 CRM-ISM POSTDOCTORAL FELLOWSHIP – *Université du Québec à Montréal, Canada*

Awarded on merit to promising researchers from around the world who have recently obtained or will soon obtain their Ph.D. in Mathematics.

2006 HEAD OF SCHOOL'S AWARD FOR LECTURING EXCELLENCE (×2)

School of Mathematical Sciences, The University of Adelaide

Awarded to staff who achieve a mean or median score of at least 6 out of 7 in their SELTs for the question: "All things considered, how would you rate the effectiveness of this person as a university teacher?"

Award received for *all* of my evaluated courses in 2006:

- Statistical Modelling II (6.6, 7)*
- Statistical Practice I (6, 6)*
- Statistical Practice I (Life Sciences) (5.8, 6)*

2003 UNIVERSITY MEDAL FOR 2002 (1 of only 19 such medals) – *The University of Adelaide*

Awarded for outstanding academic merit during undergraduate studies.

^{††}<http://top25.sciencedirect.com/subject/mathematics/16/journal/european-journal-of-combinatorics/01956698/archive/67/>

[‡]<http://top25.sciencedirect.com/subject/mathematics/16/journal/journal-of-combinatorial-theory-series-a/00973165/archive/66/>

[§]<http://our.murdoch.edu.au/Educational-Development/VCS-Learning-and-Teaching-Awards/Teaching-awards/2014-recipients/>

^{**}<http://staffnews.murdoch.edu.au/uni-awards-top-teachers-for-2014/>

[†]<http://top25.sciencedirect.com/subject/computer-science/7/journal/theoretical-computer-science/03043975/archive/47/>

[‡]<http://top25.sciencedirect.com/subject/mathematics/16/journal/european-journal-of-combinatorics/01956698/archive/20/>

*Numbers in parentheses are the SELT scores (mean, median)

2003–2006 GEORGE FRASER SCHOLARSHIP – *The University of Adelaide*

Awarded to the highest ranking applicant for an Australian Postgraduate Award who is not in receipt of an award or scholarship of greater value.

2002 MACE BEARER

Academic Procession at the December graduation ceremony for the Mathematical & Computer Sciences at *The University of Adelaide*.

2002 NANCY WEBB PRIZE FOR 2001 – *School of Mathematical Sciences, The University of Adelaide*

Awarded to the female student with the highest aggregate score in courses comprising a major in either Applied Maths, Pure Maths, or Statistics.

2001 AUSTRALIAN BUREAU OF STATISTICS SCHOLARSHIP

Awarded for undergraduate study in Statistics at an Australian university.

1999–2002 WYATT UNIVERSITY SCHOLARSHIP FOR COUNTRY STUDENTS

Awarded to outstanding country students undertaking a bachelor degree at an Australian university.

1999–2001 DEAN'S CERTIFICATE OF MERIT – *School of Mathematical Sciences, The University of Adelaide*

Awarded for outstanding academic achievement.

1999 MEMBERSHIP OF THE GOLDEN KEY INTERNATIONAL HONOUR SOCIETY

In recognition of outstanding scholastic achievement and excellence (top 15%).

1999 ADELAIDE UNIVERSITY ACCESS AND RURAL SCHOLARSHIP

Awarded to outstanding secondary school students from rural areas entering The University of Adelaide.

Professional Activities

Editorial work

- ▶ Since 2012, I have been serving on the **Editorial Board** of the peer-reviewed *Journal of Discrete Mathematics*.
- ▶ From December 2010 to August 2011, I also served on the **Program Committee** of the *5th International Conference on Language & Automata Theory & Applications (LATA2011)* – <http://grammars.grlmc.com/LATA2011>.

Referee work

I have been a **referee** for the following peer-reviewed journals and conferences.

- ▶ ADVANCES IN APPLIED MATHEMATICS
- ▶ DISCRETE APPLIED MATHEMATICS
- ▶ DISCRETE MATHEMATICS
- ▶ DISCRETE MATHEMATICS & THEORETICAL COMPUTER SCIENCE
- ▶ DEVELOPMENTS IN LANGUAGE THEORY 2009–2011, 2013 (conference)
- ▶ ELECTRONIC JOURNAL OF COMBINATORICS
- ▶ FUNDAMENTA INFORMATICA
- ▶ GAZETTE OF THE AUSTRALIAN MATHEMATICAL SOCIETY
- ▶ INFORMATION PROCESSING LETTERS
- ▶ INTERNATIONAL CONFERENCE ON WORDS 2007, 2009, 2013, 2015
- ▶ INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE
- ▶ INTERNATIONAL WORKSHOP ON COMBINATORIAL IMAGE ANALYSIS 2008
- ▶ ISRN COMBINATORICS
- ▶ JOURNAL DE THÉORIE DES NOMBRES DE BORDEAUX

- ▶ JOURNAL OF COMBINATORIAL THEORY, SERIES A
- ▶ JOURNAL OF COMPUTER AND SYSTEM SCIENCES
- ▶ JOURNAL OF DISCRETE ALGORITHMS
- ▶ JOURNAL OF INTEGER SEQUENCES
- ▶ KYBERNETIKA
- ▶ MATHEMATICAL REVIEWS (AMS MathSciNet)
- ▶ RAIRO THEORETICAL INFORMATICS AND APPLICATIONS
- ▶ THEORETICAL COMPUTER SCIENCE
- ▶ 5TH INTERNATIONAL CONFERENCE ON LANGUAGE AND AUTOMATA THEORY AND APPLICATIONS (LATA2011)
- ▶ 16TH INTERNATIONAL SYMPOSIUM ON FUNDAMENTALS OF COMPUTATION THEORY 2007
- ▶ 28TH INTERNATIONAL SYMPOSIUM ON THEORETICAL ASPECTS OF COMPUTER SCIENCE (STACS 2011)
- ▶ 35TH INTERNATIONAL SYMPOSIUM ON MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (MFCS 2010)
- ▶ 41ST INTERNATIONAL COLLOQUIUM ON AUTOMATA, LANGUAGES & PROGRAMMING (ICALP 2014)

Conference & Event Organisation

Oct 26–29, 2015: STRINGMASTERS @ MURDOCH 2015

<http://ccwaperth.wordpress.com/stringmasters>

Centre for Combinatorics on Words & Applications, Murdoch University, Perth, Western Australia
CO-ORGANISED with Jamie Simpson (Curtin/Murdoch) and Bill Smyth (McMaster University)

Sept 28–Oct 1, 2015: SPECIAL SESSION IN COMBINATORICS

59th Annual Meeting of the Australian Mathematical Society

Flinders University, Adelaide, South Australia

CO-ORGANISED with Jamie Simpson (Curtin/Murdoch)

June 2, 2014: WOMEN IN MATHEMATICS AFTERNOON TEA

The University of Western Australia, Perth

CO-ORGANISED with Alice Devillers & Cheryl Praeger (UWA)

November 15, 2013: WOMEN IN MATHEMATICS AFTERNOON TEA

The University of Western Australia, Perth

CO-ORGANISED with Alice Devillers (UWA)

May 25–28, 2009: INVITED MINI-SYMPOSIUM IN COMBINATORICS ON WORDS

2nd Canadian Discrete & Algorithmic Mathematics Conference

Centre de Recherches Mathématiques (CRM), Montréal, Canada

CO-ORGANISED with Narad Rampersad & James Currie (Winnipeg)

Professional Societies & Groups

I am a **founder & director** of the CENTRE FOR COMBINATORICS ON WORDS & APPLICATIONS at Murdoch University (<http://ccwaperth.wordpress.com>) and am also a **member** of the following professional societies, groups, and committees.

- ▶ AUSTRALIAN MATHEMATICAL SOCIETY – AustMS (since 2003)
- ▶ AUSTMS WOMEN IN MATHEMATICS SPECIAL INTEREST GROUP – WIMSIG (since 2012)
- ▶ CANADIAN MATHEMATICAL SOCIETY (since 2008)
- ▶ COMBINATORIAL MATHEMATICS SOCIETY OF AUSTRALASIA – CMSA (Life Member since 2010)
- ▶ COUNCIL OF THE AUSTMS, Ordinary Member (2013–2015)
- ▶ COUNCIL OF THE CMSA (since December 2013)
- ▶ EXECUTIVE COMMITTEE OF THE AUSTMS WIMSIG (2013–2014)
- ▶ GOLDEN KEY INTERNATIONAL HONOUR SOCIETY (since 1999)
- ▶ ICELANDIC CENTRE OF EXCELLENCE IN THEORETICAL COMPUTER SCIENCE (2008–2009)
- ▶ WEBMASTER OF THE AUSTMS WIMSIG (since 2013)

Programming languages

- ▶ L^AT_EX: markup language for mathematical typesetting
- ▶ MATLAB: numerical computing environment
- ▶ PYTHON: powerful, high-level programming language
- ▶ SAGE: free, open-source mathematical software (Python-based)
- ▶ MAPLE: computer algebra system
- ▶ C: imperative (procedural) systems implementation language
- ▶ R/S⁺: language & environment for statistical computing

SAGE mathematical software contribution

- ▶ Combinatorics on Words package (see <http://code.google.com/p/sage-words>)

Professional Development

June 30, 2015: SUPERVISOR ENHANCEMENT WORKSHOP (3 hours) at Murdoch University

Sept 30–Oct 1, 2010: AUSTRALIAN LEARNING AND TEACHING COUNCIL WORKSHOP: *Effective Learning and Teaching in the Quantitative Disciplines*, The University of Queensland

September 25–26, 2010: 2ND EARLY CAREER WORKSHOP of the Australian Mathematical Society, Rydges Oasis Resort, Caloundra, Queensland

Semester 2, 2010: ENHANCING POSTGRADUATE SUPERVISION COURSE, Murdoch University

Semester 1, 2010: TERTIARY TEACHING COURSE, Murdoch University

Service to the University & Community

MURDOCH UNIVERSITY

- ▶ MEMBER, *School International Engagement and Marketing Committee* – Engineering & IT (ongoing, since 2016)
- ▶ UNIT CONTACT, *School TNE Project* – Engineering & IT (ongoing, since 2016)
- ▶ MEMBER, *School Board* – Engineering & Information Technology (ongoing, since 2013)
- ▶ MEMBER, *School of CMS Learning & Teaching Workgroup* (2011–2012)
- ▶ SCHOOL WEBSITE APPROVER, *Standardisation of the University's web pages* (2011–2012)
- ▶ MEMBER, *School Selection Committee for Level B position in Statistics* (early 2011)
- ▶ MEMBER, *School of CMS Workload Model Working Party* (2010)
- ▶ VOLUNTEER, Murdoch University “Open Your Mind Day” (2010, 2012)
- ▶ PROGRAM COORDINATOR, *Maths & Stats Clinic** (2010–2013)
- ▶ CONVENOR, *Mathematics & Statistics Seminar Series* (ongoing, since 2009)

*An approved Murdoch University Volunteer Program in which volunteer students in their latter years of study provide assistance with concepts and problem solving to other Murdoch students taking any of the 100-level Maths and Stats units.

THE UNIVERSITY OF ADELAIDE

- 2006
- ▶ PRESENTER of a talk on “Opportunities in Mathematics”
Forum for Level III Mathematics Students (May 24)
 - ▶ OPEN DAY REPRESENTATIVE
School of Mathematical Sciences
 - ▶ MENTOR & TEAM CAPTAIN
Siemens Science Experience[†] for Year 9 students (January 17–19)

2003–2005

- ▶ MENTOR & TEAM LEADER
Siemens Science Experience[†] for Year 9 students (January 11–13, 2005)
- ▶ POSTGRADUATE STUDENT REPRESENTATIVE
Discipline of Pure Mathematics
- ▶ MATHEMATICS CURRICULUM COMMITTEE

[†]An outreach programme to encourage talented high school students to pursue studies in science, technology, and engineering.

MURDOCH UNIVERSITY

- 2016 Semester 1** – MAS162 Foundations of Discrete Mathematics (*coordination, lectures, external tutoring*)
May Trimester in Dubai – MAS167 Computational Mathematics (*coordination*)
Semester 2 – MAS161 Calculus & Matrix Algebra (*coordination, lectures, tutorials, external tutoring*)
- 2015 January Trimester in Dubai** – MAS167 Computational Mathematics (*coordination*)
Semester 1 – MAS162 Foundations of Discrete Mathematics (*coordination, lectures, external tutoring*)
Semester 2 – MAS161 Calculus & Matrix Algebra (*coordination, lectures, tutorials, external tutoring*)
OUA Study Period 3 – MAS130 Calculus & Matrix Algebra (*coordination*)
September Trimester in Dubai – MAS167 Computational Mathematics (*coordination*)
OUA Study Period 4 – MAS130 Calculus & Matrix Algebra (*coordination*)
- 2014 Semester 1** – *Research Studies Program* (no teaching) from February 3 to July 20, 2014
Semester 2 – MAS161 Calculus and Matrix Algebra (*coordination, lectures, tutorials, external tutoring*)
OUA Study Period 3 – MAS130 Calculus and Matrix Algebra (*coordination*)
Honours supervision (100%) – Rosie Murray (Thesis: *Topics in Combinatorics on Words*)
- 2013 Semester 1**
- MAS167 Computational Mathematics (*coordination, lectures, tutorials, external tutoring*)
 - MAS164 Fundamentals of Mathematics (*external tutoring*)
 - MAS4013 Applied Combinatorics (Honours unit)
- Trimester 2 (Dubai)** – MAS167 Computational Mathematics (*coordination*)
Semester 2 – MAS161 Calculus and Matrix Algebra (*coordination, lectures, tutorials, external tutoring*)
OUA Study Period 3 – MAS130 Calculus and Matrix Algebra (*coordination*)
Honours supervision (100%) – Rosie Murray (Thesis: *Topics in Combinatorics on Words*)
- 2012 Semester 1** – MAS167 Computational Mathematics (*coordination, lectures, tutorials, external tutoring*)
Trimester 3 (Dubai) – MAS167 Computational Mathematics (*coordination*)
Semester 2
- MAS161 Calculus and Matrix Algebra (*coordination, lectures, tutorials, external tutoring*)
 - MAS167 Computational Mathematics (*tutorials, external tutoring*)
- Honours supervision (100%)** – Rosie Murray (Thesis: *Topics in Combinatorics on Words*)
Summer Research Project (Dec 2012 – Jan 2013) – Jeanette Koh (Project: *Words Coding Curves*)
- 2011 Semester 1** – MAS167 Computational Mathematics (*coordination, lectures, tutorials, external tutoring*)
Semester 2
- MAS161 Calculus and Matrix Algebra: *coordination, lectures, tutorials, external tutoring*
 - MAS167 Computational Mathematics (*tutorials, external tutoring*)
- Honours Supervision (25%)** – William Stelbovics (Thesis: *The History of the Normal Distribution*), 1st class
- 2010 Semesters 1 & 2** – MAS167 Computational Mathematics (*coordination (S2), lectures, tutorials*), including coordination of the N1 offering at the Dubai campus[†] from September to December.

*All units/courses span 12–13 weeks, unless otherwise specified.

[†]<http://dubai.murdoch.edu.au>

2009 Semester 2

- MAS4011 Applied Combinatorics & Discrete Mathematics (Honours unit)
 - MAS167 Computational Mathematics: *lectures (Weeks 9–14), tutorials*
-

REYKJAVÍK UNIVERSITY**2008–2010 PHD STUDENT:** Steven Widmer

- * Co-supervised with Prof. Luca Zamboni, Université Claude Bernard – Lyon 1, France.
- * Awarded PhD (with an Honourable Mention) at Université Claude Bernard – Lyon 1 in November 2010.

2008 COURSE (Autumn semester): Discrete Mathematics (Level 1)**THE UNIVERSITY OF ADELAIDE****2006 COURSES:**

- Statistical Practice I (Weeks 1–6, Semester 1)
- Statistical Practice I – Life Sciences (Weeks 1–4, Semester 2)
- Statistical Modelling II
- Differential Equations and Statistical Methods II (SM part)
- Laplace Transforms & Probability and Statistics (PS part)

ASSESSMENT:

Assessor for an Honours thesis in Statistics: *"Graphical Chain Models Using Longitudinal Data: Evaluating Risk Factors For Cataract"*.

2005 LECTURES:

- Mathematics 1MA – Algebra (Weeks 1–6, Semester 1)
- Statistical Modelling II

TUTORIAL CLASSES:

- Statistical Practice I
- Statistical Practice I (Life Sciences)
- Mathematics 1MA
- Introduction to Financial Mathematics I
- Mathematical Statistics III

CONSULTING:

- Mathematics 1MA
- Statistical Modelling II

HONOURS EXAM SUPERVISION (Semester 1):

- Generalised Linear Models
- Mathematical Statistics III
- Statistical Modelling III

HONOURS EXAM SUPERVISION (Semester 2):

- Algebraic Topology/Bioinformatics
- Fractal Geometry III
- Transform Methods and Signal Processing
- Finite Geometry/Modelling Teletraffic
- Aerodynamics
- Topics in Analysis

EXAM MARKING:

- Mathematics 1MA (Algebra)
- Statistical Practice I (Life Sciences)
- Statistical Modelling II

2004 TUTORIAL CLASSES:

- Theory of Statistics III
- Statistical Theory and Modelling II
- Statistical Practice I

EXAM MARKING:

- Laplace Transforms, Probability & Statistical Methods
- Statistical Practice I

2003 TUTORIAL CLASSES:

- Statistical Practice I
- Statistical Theory and Modelling II
- Introduction to Mathematical Statistics II

MARKING:

- Fractal Geometry III assignments
- Mathematics I exams (Algebra section)

2002 TUTORIAL CLASSES:

- Statistical Theory and Modelling II
- Statistical Practice I

2001 TUTORIAL CLASS: Statistical Practice I

CONSULTING: Statistical Theory and Modelling II

MARKING: Methods in Applied Mathematics II

BRADFORD COLLEGE**2005 TUTORIAL CLASS: Statistical Practice I****2004 TUTORIAL CLASSES:**

- Introduction to Financial Mathematics I
- Statistical Practice I

2003 TUTORIAL CLASS: Statistical Practice I

OTHER TEACHING**1997 LOXTON LUTHERAN PRIMARY SCHOOL (Loxton, South Australia)**

Work experience as a teaching assistant for 1 week.

Responsibilities as a Lecturer:

- Developing unit/course material.
- Preparing and delivering lectures, including the making of over-head transparencies (in the past) or computer presentation slides.
- Producing lecture notes and hand-outs for students.
- Developing questions and exercises for assignments, tutorials, computer practical sessions, and final examinations, together with solutions and marking schemes.
- Uploading course material to the *Learning Management System* (LMS) – an on-line learning environment for students, lecturers, and instructors.

-
- Conducting tutorial or practical classes each week, in which problems are worked through with students and concepts are explained further.
 - Keeping in touch with students via email as well as announcements and discussion boards on the LMS.
 - Mentoring/supervising tutorial and practical instructors.
 - Marking assignments and examinations, and assigning final grades.
 - Providing weekly consultation hours for students.
 - Other administrative duties, including distributing material to instructors, etc.

Responsibilities as an Instructor (tutorial classes):

- Preparing for tutorials and computer practical sessions.
 - Conducting tutorial classes each week, in which problems are worked through with students and concepts are explained further.
 - Marking assignments and examinations.
 - Providing weekly consultation hours for students in some units/courses.
-

Teaching Interests

Pure Mathematics: Discrete Mathematics, Combinatorics, Number Theory, Algebra, Finite Geometry

Statistics/Applied Mathematics: Mathematical/Theoretical Statistics, Introductory Statistics, Financial Mathematics

Refereed Journal Papers[†]

- (21) *Generalized trapezoidal words*** (with Florence Levé), *Journal of Combinatorial Theory Series A* 136 (2015) 96–125.
- (20) *The total run length of a word*[§] (with Jamie Simpson), *Theoretical Computer Science* 501 (2013) 41–48.
- (19) *Extremal properties of (epi)Sturmian sequences and distribution modulo 1* (with Jean-Paul Allouche), *L'Enseignement Mathématique* 56 (2010) 365–401.
- (18) *Crucial abelian k -power free words* (with Bjarni V. Halldórsson, Sergey Kitaev), *Discrete Mathematics and Theoretical Computer Science* 12 (2010) 83–96.
- (17) *On shortest crucial words avoiding abelian powers* (with Sergey Avgustinovich, Bjarni V. Halldórsson, Sergey Kitaev), *Discrete Applied Mathematics* 158 (2010) 605–607.
- (16) *Distribution modulo 1 and the lexicographic world* (with Jean-Paul Allouche), *Annales Sci. Math. Québec* 33 (2009) 125–143.
- (15) *Episturmian words: a survey*[‡] (with Jacques Justin), *RAIRO – Theoretical Informatics and Applications* 43 (2009) 403–442.
- (14) *A new characteristic property of rich words* (with Michelangelo Bucci, Alessandro De Luca, Luca Q. Zamboni), *Theoretical Computer Science* 410 (2009) 2860–2863.
- (13) *A connection between palindromic and factor complexity using return words*[¶] (with Michelangelo Bucci, Alessandro De Luca, Luca Q. Zamboni), *Advances in Applied Mathematics* 42 (2009) 60–74.
- (12) *Palindromic richness*^{††} (with Jacques Justin, Steve Widmer, Luca Q. Zamboni), *European Journal of Combinatorics* 30 (2009) 510–531.
- (11) *Directive words of episturmian words: equivalences and normalization* (with Florence Levé, Gwénaél Richomme), *RAIRO – Theoretical Informatics and Applications* 43 (2009) 299–319.
- (10) *Quasiperiodic and Lyndon episturmian words* (with Florence Levé, Gwénaél Richomme), *Theoretical Computer Science* 409 (2008) 578–600.
- (9) *Rich, Sturmian, and Trapezoidal words* (with Aldo de Luca, Luca Q. Zamboni), *Theoretical Computer Science* 407 (2008) 569–573.
- (8) *A note on the Markoff condition and central words* (with Aaron Lauve, Franco V. Saliola), *Information Processing Letters* 105 (2008) 241–244.
- (7) *Characterizations of finite and infinite episturmian words via lexicographic orderings* (with Jacques Justin and Giuseppe Pirillo), *European Journal of Combinatorics* 29 (2008) 45–58.
- (6) *A characterization of fine words over a finite alphabet*, *Theoretical Computer Science* 391 (2008) 51–60.
- (5) *On the critical exponent of generalized Thue-Morse sequences* (with Alexandre Blondin-Massé, Srečko Brlek, Sébastien Labbé), *Discrete Mathematics and Theoretical Computer Science* 9 (2007) 293–304.
- (4)* *Powers in a class of \mathcal{A} -strict standard episturmian words*, *Theoretical Computer Science* 380 (2007) 330–354.

[†] Available on my website or at http://arxiv.org/a/glen_a_1.

** Listed amongst the **top 25 hottest articles** in the *Journal of Combinatorial Theory, Series A* on ScienceDirect during the period July–September 2015 (see <http://top25.sciencedirect.com/subject/mathematics/16/journal/journal-of-combinatorial-theory-series-a/00973165/archive/66/>).

[§] Listed amongst the **top 25 hottest articles** in the *Theoretical Computer Science* journal on ScienceDirect during the period July–September 2013 (see <http://top25.sciencedirect.com/subject/computer-science/7/journal/theoretical-computer-science/03043975/archive/47/>).

[‡] 18th most cited paper between 2008 & 2013 in the Combinatorics category on the arXiv (see http://scholar.google.com.au/citations?hl=en&vq=phy_discretemathematics&view_op=list_hcore&venue=Ux-dohQAG7QJ.2013).

[¶] 6th most cited paper since 2008 in *Advances in Applied Mathematics* according to Google Scholar (see https://scholar.google.com.au/citations?hl=en&vq=phy_discretemathematics&view_op=list_hcore&venue=KolcX_uBonEJ.2014).

^{††} Listed amongst the **top 25 hottest articles** in the *European Journal of Combinatorics* on ScienceDirect during October–December 2008 (see <http://top25.sciencedirect.com/subject/mathematics/16/journal/european-journal-of-combinatorics/01956698/archive/20/>). It is also the 4th most cited paper since 2008 in the *European Journal of Combinatorics* according to Google Scholar (see https://scholar.google.com.au/citations?hl=en&vq=phy_discretemathematics&view_op=list_hcore&venue=Wsa9pUKWIAJ.2014) and the 13th most cited paper between 2008 & 2013 in the Combinatorics category on the arXiv (see http://scholar.google.com.au/citations?hl=en&vq=phy_discretemathematics&view_op=list_hcore&venue=Ux-dohQAG7QJ.2013).

* indicates work that is part of my PhD thesis

- (3)* *Occurrences of palindromes in characteristic Sturmian words*, Theoretical Computer Science 352 (2006) 31–46.
- (2)* *Conjugates of characteristic Sturmian words generated by morphisms*, European Journal of Combinatorics 25 (2004) 1025–1037.
- (1) *Euler & his contribution to Number Theory* (with Paul Scott), The Australian Mathematics Teacher 60 (2004) 2–5.

Book Chapters[†]

- (1) *Crucial words for abelian powers* (with Bjarni V. Halldórsson, Sergey Kitaev), Lecture Notes in Computer Science, vol. 5583, Springer-Verlag, Berlin, 2009, pp. 264–275.

Conference Papers[†]

- (10) *On the number of palindromically rich words*, 59th Annual Meeting of the Australian Mathematical Society, Flinders University, Adelaide, South Australia, September 28 – October 1, 2015.
- (9) *Palindromically rich GT-words*, 38th Australasian Conference on Combinatorial Mathematics & Combinatorial Computing (37ACCMCC), Victoria University of Wellington, New Zealand, December 1–5, 2014.
- (8) *A note on self-maximal numbers*, 37th Australasian Conference on Combinatorial Mathematics & Combinatorial Computing (37ACCMCC), The University of Western Australia, Perth, December 9–12, 2013.
- (7) *On a generalisation of trapezoidal words* (with Florence Levé), 35th Australasian Conference on Combinatorial Mathematics & Combinatorial Computing (35ACCMCC), Monash University, Melbourne, Australia, December 5–9, 2011.
- (6) *Crucial words for abelian powers* (with Bjarni V. Halldórsson, Sergey Kitaev), in: V. Diekert *et al.* (Eds.), Proceedings of the 13th International Conference on Developments in Language Theory – DLT 2009 (Stuttgart, Germany), June 30 – July 3, 2009.
- (5) *A new characteristic property of rich words* (with Michelangelo Bucci, Alessandro De Luca, Luca Q. Zamboni), 12èmes Journées Montoises d’Informatique Théorique (Mons, Belgium), August 27–30, 2008, 6 pages.
- (4) *Directive words of episturmian words* (with Florence Levé, Gwénaél Richomme), 12èmes Journées Montoises d’Informatique Théorique (Mons, Belgium), August 27–30, 2008, 15 pages.
- (3) *Order and quasiperiodicity in episturmian words*, 6th International Conference on Words (Marseille, France), September 17–21, 2007, 10 pages.
- (2) *A characterization of fine words over a finite alphabet*, International School and Conference on Combinatorics, Automata & Number Theory (Liège, Belgium), May 8–19, 2006, 10 pages.
- (1) *Powers in a class of \mathcal{A} -strict standard episturmian words*, 5th International Conference on Words (Montréal, Canada), September 13–17, 2005.

Preprints & Work in Progress

- (4) *More on words with simple Burrows-Wheeler transforms*, in preparation.
- (3) *A generalisation of Markoff’s condition*, in preparation.
- (2) *A note on self-episturmian numbers*, in preparation.
- (1) *A simple characterization of bi-primitive morphisms*, in preparation.

[†] Available on my website or at http://arxiv.org/a/glen_a_1.

Other Research Papers[†]

- (4) *On Sturmian and episturmian words, and related topics* (PhD excerpt), Bulletin of the Australian Mathematical Society 74 (2006) 155–160.
 - (3) PHD THESIS*: *On Sturmian and episturmian words, and related topics*, The University of Adelaide, Australia, April 2006, 191 pages.
 - (2) *Transcendence of certain k -ary continued fraction expansions* (2005), unpublished manuscript, 13 pages.
 - (1) HONOURS THESIS: *On the period length of pseudorandom number sequences*, The University of Adelaide, Australia, November 2002, 100 pages.
-

Research Collaborators

Australia: Paul Scott (Adelaide); Jamie Simpson (Perth).

Canada: Alexandre Blondin-Massé (Montréal); Srečko Brlek (Montréal); James Currie (Winnipeg); Sébastien Labbé (Montréal); Franco Saliola (Montréal).

France: Jean-Paul Allouche (Paris); Jacques Justin (Paris); Florence Levé (Amiens); Geneviève Paquin (Chambery); Gwénaél Richomme (Montpellier); Steve Widmer (Lyon); Laurent Vuillon (Chambery); Luca Q. Zamboni (Lyon/Turku).

Italy: Michelangelo Bucci (Napoli); Aldo de Luca (Napoli); Alessandro De Luca (Napoli); Giuseppe Pirillo (Firenze).

Reykjavík, Iceland: Bjarni Halldórsson; Sergey Kitaev.

Russia: Sergey Avgustinovich (Novosibirsk).

USA: Aaron Lauve (Chicago).

Visiting Research Invitations

June 20–July 18, 2011

LABORATOIRE DE MIS, UNIVERSITÉ DE PICARDIE JULES VERNE, Amiens, France
HOST: Florence Levé

July 23–29, 2008

DEPARTMENT OF MATHEMATICS & STATISTICS, UNIVERSITY OF WINNIPEG, Canada
HOSTS: James Currie; Narad Rampersad

November 4–17, 2007

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF NORTH TEXAS, USA
HOST: Luca Q. Zamboni

September 22–26, 2007

MATEMATISKA INSTITUTIONEN, UPPSALA UNIVERSITET, Sweden
HOST: Ernst Dieterich

*<http://hdl.handle.net/2440/37765>

[†]Available on my website.

Conference Talks (13)

- 2015** *On the number of palindromically rich words*
59TH ANNUAL MEETING OF THE AUSTRALIAN MATHEMATICAL SOCIETY
Flinders University, Adelaide, September 28 – October 1
- 2014** *Palindromically rich GT-words*
38TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
Victoria University of Wellington, New Zealand, December 1–5
- 2013** *A note on self-maximal numbers*
37TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
The University of Western Australia, Perth, December 9–12
- 2013** *Total run length of a word (open problems)*
FIELDS WORKSHOP ON CHALLENGES IN COMBINATORICS ON WORDS, Fields Institute, Toronto, Canada, April 22–26
- 2012** *On a generalisation of trapezoidal words*
OUTSTANDING CHALLENGES IN COMBINATORICS ON WORDS, Banff International Research Station (BIRS), Banff Centre, Canada, February 19–24
- 2012** *Combinatorics of Lyndon words*
MINI-CONFERENCE: COMBINATORICS, REPRESENTATIONS, AND STRUCTURE OF LIE TYPE
The University of Melbourne, February 16–17
- 2011** *On a generalisation of trapezoidal words*
35TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
Monash University, Melbourne, December 5–9
- 2010** *Rich, Sturmian, and trapezoidal words*
54TH CONFERENCE OF THE AUSTRALIAN MATHEMATICAL SOCIETY, The University of Queensland, Brisbane, September 27–30
- 2010** *On almost rich words*
MINI-WORKSHOP: COMBINATORICS ON WORDS, Mathematisches Forschungsinstitut Oberwolfach, Germany, August 22–28
- 2008** *A new characteristic property of rich words*, 12ÈMES JOURNÉES MONTOISES D'INFORMATIQUE THÉORIQUE
Mons, Belgium, August 27–30.
- 2007** *Order and quasiperiodicity in episturmian words*
SIXTH INTERNATIONAL CONFERENCE ON WORDS, CIRM, Marseille, France, September 17–21.
- 2006** *A characterization of fine words over a finite alphabet*
COMBINATORICS, AUTOMATA & NUMBER THEORY CONFERENCE, Université de Liège, Belgium, May 8–19.
- 2005** *Powers in a class of \mathcal{A} -strict standard episturmian words*
5TH INTERNATIONAL CONFERENCE ON WORDS, Université du Québec à Montréal, Canada, Sept 13–17.

Conference & Workshop Invitations (9)

- December 12–16, 2016** 40TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHS & COMBINATORIAL COMPUTING (40ACCMCC)
The University of Newcastle, Australia
- April 8–9, 2016** CAPITAL NUMBER THEORY (conference)
Australian National University, Canberra
- March 9–14, 2014** Workshop on COMBINATORICS & ALGORITHMIC OF STRINGS
Schloss Dagstuhl, Germany
- April 22–26, 2013** FIELDS WORKSHOP ON CHALLENGES IN COMBINATORICS ON WORDS
Fields Institute, Toronto, Canada
- February 19–24, 2012** OUTSTANDING CHALLENGES IN COMBINATORICS ON WORDS
Banff International Research Station (BIRS), The Banff Centre, Canada
ORGANISERS: James Currie, Jeffrey Shallit
- February 16–17, 2012** MINI-CONFERENCE: COMBINATORICS, REPRESENTATIONS, AND STRUCTURE OF LIE TYPE
Department of Mathematics and Statistics, The University of Melbourne, Australia
ORGANISERS: Arun Ram, Lawrence Reeves, Craig Westerland
- August 22–28, 2010** MINI-WORKSHOP: COMBINATORICS ON WORDS
Mathematisches Forschungsinstitut Oberwolfach, Germany
ORGANISERS: Valérie Berthé, Juhani Karhumäki, Dirk Nowotka, Jeffrey Shallit
- June 6–8, 2009** SPECIAL SESSION ON ALGEBRAIC COMBINATORICS
CMS* Summer Meeting 2009, Memorial University, St. John's, Newfoundland, Canada
ORGANISERS: Steve Kirkland, Karen Meagher
- March 27–29, 2009** SPECIAL SESSION ON THE INTERFACE BETWEEN NUMBER THEORY & DYNAMICAL SYSTEMS
AMS† Spring Central Sectional Meeting 2009, University of Illinois at Urbana-Champaign, Illinois, USA
ORGANISERS: Florin Boca, Jeffrey Lagarias, Kenneth Stolarsky

Invited Talks & Colloquia (22)

- December 12–16, 2016**
40TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHS & COMBINATORIAL COMPUTING (40ACCMCC)
The University of Newcastle, Australia
- April 8–9, 2016**
CAPITAL NUMBER THEORY
Australian National University, Canberra
- February 23, 2012** *On a generalisation of trapezoidal words*
WORKSHOP: OUTSTANDING CHALLENGES IN COMBINATORICS ON WORDS
Banff International Research Station (BIRS), The Banff Centre, Canada
- February 16, 2012** *Combinatorics of Lyndon words*
MINI-CONFERENCE: COMBINATORICS, REPRESENTATIONS, AND STRUCTURE OF LIE TYPE
The University of Melbourne
- July 12, 2011** *A combinatorial approach to a problem in distribution modulo 1*
SÉMINAIRE DU LABORATOIRE DE MIS, Université de Picardie Jules Verne, Amiens, France

*Canadian Mathematical Society

†American Mathematical Society

- February 12, 2010** *Finite & infinite words in Number Theory*
SCHOOL OF MATHEMATICAL SCIENCES COLLOQUIUM, The University of Adelaide
- November 17, 2009** *Combinatorics on words & some applications to problems in Number Theory*
GROUPS & COMBINATORICS SEMINAR, School of Mathematics & Statistics, Univ. of Western Australia
- June 6, 2009** *Abelian repetitions and crucial words*
ALGEBRAIC COMBINATORICS session in the CMS SUMMER MEETING, Memorial University, St. John's, Newfoundland, Canada
- April 1, 2009** *Palindromic sequences in Number Theory*
SEMINAR OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS, University of Winnipeg, Canada
- March 28, 2009** *Palindromic properties of infinite sequences with applications to Number Theory*
AMS SPRING CENTRAL SECTIONAL MEETING
SESSION: Interface between Number Theory and Dynamical Systems
University of Illinois at Urbana-Champaign, Illinois, USA
- January 12, 2009** *Crucial words for abelian powers*
MATHEMATICS COLLOQUIUM, Mathematics Division, Science Institute, University of Iceland
- September 26, 2008** *Palindromic richness*
LECTURE SERIES OF THE ICELANDIC CENTRE OF EXCELLENCE IN THEORETICAL COMPUTER SCIENCE (ICE-TCS), Reykjavík University, Iceland
- September 12, 2008** *Rich words*
LE SÉMINAIRE DE COMBINATOIRE ET D'INFORMATIQUE THÉORIQUE, LaCIM, Université du Québec à Montréal, Canada
- July 25, 2008** *Palindromic richness*
SEMINAR OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS, University of Winnipeg, Canada
- November 16, 2007** *Christoffel words and Markoff's condition*
MILLICAN COLLOQUIUM SERIES, Department of Mathematics, University of North Texas, USA
- October 17, 2007** *Markoff's property, central words, and Christoffel words*
ISM GRADUATE STUDENT SEMINAR, Département de Mathématique, Université du Québec à Montréal, Canada
- Sept 25, 2007** *Episturmian words: extremal properties and quasiperiodicity*
ALGEBRA AND GEOMETRY RESEARCH GROUP SEMINAR, Matematiska Institutionen, Uppsala Universitet, Sweden
- March 14, 2007** *A few words about skew and episkew words*
WORKSHOP ON RECENT PROGRESS IN COMBINATORICS ON WORDS, Centre de Recherche Mathématique, Université de Montréal, Canada
- February 12, 2007** *Characterizations of finite and infinite episturmian words via lexicographic orderings*, ALGEBRAIC COMBINATORICS SEMINAR, The Fields Institute, University of Toronto, Canada
- January 22, 2007** *Powers in a class of \mathcal{A} -strict standard episturmian words*
SÉMINAIRE D'INFORMATIQUE MATHÉMATIQUE, LaCIM, Université du Québec à Montréal, Canada
- December 8, 2006** *Characterizations of finite and infinite episturmian words via lexicographic orderings*
SÉMINAIRE DE COMBINATOIRE ET D'INFORMATIQUE THÉORIQUE, LaCIM, Université du Québec à Montréal, Canada
- May 24, 2006** *Opportunities in Mathematics*
FORUM FOR LEVEL III MATHEMATICS STUDENTS, School of Mathematical Sciences, Adelaide University

Seminars (15)

August 27, 2009 *Palindromic sequences in Number Theory*

MATHEMATICS & STATISTICS SEMINAR, Murdoch University, Australia

March 20, 2009 *Palindromic properties of infinite sequences with applications to Number Theory*

LECTURE SERIES OF THE ICELANDIC CENTRE OF EXCELLENCE IN THEORETICAL COMPUTER SCIENCE (ICE-TCS), Reykjavík University, Iceland

November 14, 2008 *More on rich words*

COMBINATORICS SEMINAR, Reykjavík University, Iceland

January 21, 2008 *Markoff's property and Christoffel words*

ALGORITHMS & COMPLEXITY SEMINAR, University of Waterloo, Canada

October 5, 2006 *Characterizations of finite and infinite episturmian words*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

June 15, 2006 *Fine words over a finite alphabet*

POSTGRADUATE SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

April 28, 2006 *Fine words over a finite alphabet*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

August 25, 2005 *Powers in a class of A -strict episturmian words*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

September 2, 2004 *Sturmian words, β -shifts & transcendence (paper study)*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

April 29, 2004 *Transcendence of Sturmian or morphic continued fractions II*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

April 22, 2004 *Transcendence of Sturmian or morphic continued fractions I*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

February 27, 2004 *Combinatorics on Sturmian words*

MAJOR REVIEW SEMINAR, School of Mathematical Sciences, The University of Adelaide

August 7, 2003 *Standard sequences and characteristic words (continued)*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

July 31, 2003 *Standard sequences and characteristic words (book study)*

NUMBER THEORY SEMINAR SERIES, School of Mathematical Sciences, The University of Adelaide

September 18, 2002 *On the period length of pseudorandom number sequences*

HONOURS SEMINAR, School of Mathematical Sciences, The University of Adelaide

Participation in Conferences

September 28 – October 1, 2015

59TH ANNUAL MEETING OF THE AUSTRALIAN MATHEMATICAL SOCIETY
Flinders University, Adelaide, South Australia

December 1–5, 2014

38TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
Victoria University of Wellington, New Zealand

December 9–13, 2013

37TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
The University of Western Australia, Perth, Australia

February 16–17, 2012

MINI-CONFERENCE: COMBINATORICS, REPRESENTATIONS, AND STRUCTURE OF LIE TYPE
The University of Melbourne, Australia

December 5–9, 2011

35TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
Monash University, Melbourne, Australia

December 6–10, 2010

34TH AUSTRALASIAN CONFERENCE ON COMBINATORIAL MATHEMATICS & COMBINATORIAL COMPUTING
The Australian National University, Canberra, Australia

September 27–30, 2010

54TH CONFERENCE OF THE AUSTRALIAN MATHEMATICAL SOCIETY
The University of Queensland, Brisbane, Australia

September 14–18, 2009

7TH INTERNATIONAL CONFERENCE ON WORDS
University of Salerno, Italy

August 3–7, 2009

AUSSIE STRINGMASTERS 2009
DEBII, Curtin University of Technology, Perth, Australia

August 27–30, 2008

12ÈMES JOURNÉES MONTOISES D'INFORMATIQUE THÉORIQUE
Université de Mons-Hainaut, Belgium

June 1–5, 2008

2ND CANADA-FRANCE CONGRESS
Centre de Recherche Mathématique, Université de Montréal, Canada

September 17–21, 2007

SIXTH INTERNATIONAL CONFERENCE ON WORDS
CIRM, Marseille, France

May 8–19, 2006

COMBINATORICS, AUTOMATA & NUMBER THEORY
Université de Liège, Belgium

September 13–17, 2005

FIFTH INTERNATIONAL CONFERENCE ON WORDS
Université du Québec à Montréal, Canada

Participation in Schools & Workshops

October 26–29, 2015

STRINGMASTERS
Murdoch University

March 9–14, 2014

COMBINATORICS & ALGORITHMIC OF STRINGS
Schloss Dagstuhl, Germany

April 22–26, 2013

FIELDS WORKSHOP ON CHALLENGES IN COMBINATORICS ON WORDS
Fields Institute, Toronto, Canada

February 19–24, 2012

OUTSTANDING CHALLENGES IN COMBINATORICS ON WORDS
Banff International Research Station (BIRS), The Banff Centre, Canada
ORGANISERS: James Currie, Jeffrey Shallit

September 25–26, 2010 2ND EARLY CAREER WORKSHOP of the Australian Mathematical Society
Rydges Oasis Resort, Caloundra, Queensland

March 5–16, 2007 RECENT PROGRESS IN COMBINATORICS ON WORDS
Centre de Recherche Mathématique, Université de Montréal, Canada
ORGANISERS: Srećko Brlek, Christophe Reutenauer, Bruce Sagan

September 2004 RESEARCH: A COMMERCIAL PERSPECTIVE

A one-day introductory commercial awareness seminar for postgraduate research students (developed and delivered by the *Education Centre for Innovation Commercialisation*, Adelaide).

Jan–Feb 2004

AMSI SUMMER SCHOOL, *University of NSW*, Sydney, Australia

- *Combinatorial Matrices and Graph Theory*
Dr. Ian Wanless (ANU), Dr. Catherine Greenhill (UNSW)
- *Topics in Number Theory*
Emeritus Prof. Alfred J. van der Poorten (Macquarie University)

July 2003

SUCCESSFUL PRESENTATIONS WORKSHOP (Dr Michael Teubner)
School of Mathematical Sciences, The University of Adelaide