

# Curriculum Vitae of Dr Christopher C. Tisdell

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## Education:

Ph.D in Mathematics, The University of Queensland (UQ), Brisbane, Australia, 2002.

B.A. (Hons I) with a double major in Mathematics, UQ, Brisbane, Australia, 1998.

## Professional Experience:

- Lecturer in Mathematics, School of Mathematics & Statistics, UNSW, Sydney, 2003 - present. (full time, continuing)
- Associate Lecturer in Mathematics, School of Mathematics, UNSW, Sydney, 2002 - 2003. (full time, fixed-term)
- Lecturer in Mathematics, Department of Mathematics, UQ, Brisbane, 2002. (part-time / casual)
- Associate Lecturer in Mathematics, Department of Mathematics, UQ, Brisbane, 2001. (part-time / casual)

## Duties Performed:

The teaching of mathematics to undergraduate and postgraduate students through:

- the co-ordination of university courses;
- the preparation and presentation of lectures, tutorials and demonstration classes;
- the supervision of students and their research projects.

The conduct of research into mathematics and its applications, demonstrated via:

- the publishing of scholarly articles containing new results in international, refereed journals;
- the participation in national and international conferences to speak publicly about my research;
- collaborative work with international mathematicians.

Performing service to the university and to the profession, as illustrated by:

- sitting on editorial boards of mathematical journals;
- acting as a referee for mathematical journals;
- reviewing published research articles;
- sitting on various panels of the School of Mathematics & Statistics.

## Academic Awards:

The award of competitive research funding from national grant agencies, including:

- Tisdell, C. C., "Dynamic Equations on Measure Chains", Discovery Projects, Australian Research Council, \$131 100 over 2004-6, Chief Investigator;
- Tisdell, C. C., "Boundary Value Problems for Differential Inclusions", Linkage International Awards, Australian Research Council, \$5 600 over 2005-6, Chief Investigator;
- Tisdell, C. C., "On the Existence of Solutions to Difference Equations", Scientific Visits Program, Australian Academy of Science, \$5 600 for 2003/4, Chief Investigator;
- Tisdell, C. C., "Constructive Theory for Impulsive Systems", Scientific Visits Program, Australian Academy of Science, \$5 400 for 2005/6, Chief Investigator;
- Tisdell, C. C., Endeavour Cheung Kong Award, Endeavour Awards Programme, Department of Education, Science and Training, \$25 000 for 2006, Chief Investigator.

The award of competitive research funding from universities, including:

- Tisdell, C. C., "On the Solutions to Higher-Order Difference Equations", Faculty Research Grant Program, UNSW, \$10 000 over 2006, Chief Investigator;
- Tisdell, C. C., "On Boundary Value Problems for Fuzzy Differential Equations", Faculty Research Grant Program, UNSW, \$7 000 over 2006, Chief Investigator;
- Tisdell, C. C., "Multiple Solutions to Nonlinear Boundary Value Problems for Systems of Second-Order, Ordinary Differential Equations", Faculty Research Grant Program, UNSW, \$10 000 over 2003, Chief Investigator;

The award of competitive research funding for travelling fellowships, including:

- Tisdell, C. C., John Yu Fellowship to Europe, UNSW / Imperial College, London, \$6 000 over 2005, Chief Investigator;
- Tisdell, C. C., Ethel Raybould Visiting Fellowship, University of Queensland, 2006, Chief Investigator.

## Impact of Research:

The American Mathematical Society measures research impact by a number known as the Mathematical Citation Quotient (MCQ). The higher the MCQ, the higher the impact of research.

The latest study by the American Mathematical Society has revealed that, in mathematics, the MCQ across the field, is 0.213, which is calculated in the following way:  
(the number of citations from articles appearing in 2005 to papers from the previous 5 years)  
divided by  
(the total number of papers published over the previous 5 years).

My MCQ for 2006 is  $(21 \text{ citations}) / (28 \text{ articles}) = 0.75$ . This figure is over three times higher than the “average” impact of papers in mathematics (0.213) and thus suggests a high impact of my research.

My total number of research publications is: 50  
Total number of non-self citations received to date: 61

(Sources: MathSciNet [www.ams.org/mathscinet](http://www.ams.org/mathscinet); Google Scholar [www.scholar.google.com](http://www.scholar.google.com); Science Direct, [www.sciencedirect.com](http://www.sciencedirect.com))

## Other Distinguished Honours:

- Editor, International Journal of Difference Equations;
- Associate Editor, Australian Journal of Mathematical Analysis and Applications;
- Plenary speaker, First International Workshop on Dynamic Equations on Time Scales, Istanbul, Turkey, 2005;
- Invited speaker, Annual Meeting of the American Mathematical Society, 2003-7;
- Invited speaker, Annual Meeting of the Australian Mathematical Society, 2005-6;
- University of Queensland Postgraduate Research Scholarship;
- Australian Postgraduate Research Scholarship.

## Other Interests:

- Electronic music and DJ-ing;
- Alternative energies, especially wind power.

## Full List of Refereed Journal Publications:

Agarwal, R.; O'Regan, D.; Tisdell, C. C.; Wong, P.J.Y. [Constant sign solutions of a system of Volterra integral equations](#). *Comput. Math. Appl.* (in press, accepted Nov 2006)

Chen, J-H; Tisdell, C. C.; Yuan, R. [On the solvability of periodic boundary value problems with impulse](#). *J. Math. Anal. Appl.* (in press, accepted Oct 2006)  
doi:10.1016/j.jmaa.2006.09.021

Anderson, D. R.; Rachunkova, I; Tisdell, C. C. [Solvability of discrete Neumann boundary value problems](#). *J. Math. Anal. Appl.* (in press, accepted Aug 2006)  
doi:10.1016/j.jmaa.2006.09.002

Rachunkova, I.; Tisdell, C. C. [Existence of non-spurious solutions to discrete Dirichlet problems with lower and upper solutions](#). *Nonlinear Anal.* (in press, accepted Jul 2006)  
doi:10.1016/j.na.2006.07.010

Rudd, Matthew; Tisdell, C. C. [On the solvability of two-point, second-order boundary value problems](#). *Appl. Math. Lett.* (in press, accepted Sept 2006)

Henderson, Johnny; Tisdell, C. C. [Dynamic boundary value problems of the second-order: Bernstein-Nagumo conditions and solvability](#). *Nonlinear Anal.* (in press, accepted June 2006)  
doi:10.1016/j.na.2006.07.023

Erbe, L.; Tisdell, C. C.; Wong, P. J. Y. [On systems of boundary value problems for differential inclusions](#). *Acta Math. Appl. Sin. Engl. Ser.* (in press, accepted Jan 2006)

Agarwal, R. P.; Thompson, H. B.; Tisdell, C. C. [On the existence of multiple solutions to boundary value problems for second order, ordinary differential equations](#). *Dynam. Systems Appl.* (in press, accepted Aug 2005)

Bohner, M.; Tisdell, C. C. [Oscillation and nonoscillation of forced second order dynamic equations](#). *Pacific J. Math.* (in press, accepted Oct 2005)

Anderson, D. R.; Tisdell, C. C. [Third-order nonlocal problems with sign-changing nonlinearity on time scales](#). *Electron. J. Differential Equations*. 2007 (2007), No. 19, pp. 1--12.

Tisdell, C. C. [Systems of differential inclusions in the absence of maximum principles and growth conditions](#). *Discuss. Math. Differ. Incl. Control Optim.* 26 (2006), 129—141.

Dai, Qiuyi; Tisdell, C. C. [Existence of solutions to first-order dynamic boundary value problems](#). *International Journal of Difference Equations* 1 (2006), 1--17.

Tisdell, C. C. [On first-order discrete boundary value problems](#). *J. Difference Equ. Appl.* 12 (2006), no. 12, 1213--1223. DOI: 10.1080/10236190600949790

Tisdell, C. C. [Existence and uniqueness to nonlinear dynamic boundary value problems](#). *Cubo* 8 (2006), no. 3, 11--23.

Tisdell, C. C. [Existence of solutions to first-order periodic boundary value problems](#). *J. Math. Anal. Appl.* 323 (2006), no. 2, 1325--1332. doi:10.1016/j.jmaa.2005.11.047

- Rachunkova, I.; Tisdell, C. C. [Existence of non-spurious solutions to discrete boundary value problems](#). *Aust. J. Math. Anal. Appl.* 3 (2006), no. 2, Art. 6, 1-9 pp. (electronic).
- Tisdell, C. C. [On the solvability of nonlinear first-order boundary-value problems](#). *Electron. J. Differential Equations*. Vol. 2006(2006), No. 80, pp. 1-8.
- Davis, J. M.; Henderson, J.; Karna, B.; Sheng, Q.; Tisdell, C. C. [Existence of solutions for multipoint boundary value problems for  \$n\$ th order differential equations](#). *Nonlinear Stud.* 13 (2006), no. 1, 15--21.
- Erbe, L.; Peterson, A.; Tisdell, C. C. [Monotone solutions to dynamic systems on time scales](#). *J. Difference Equ. Appl.* 12 (2006), no. 3-4, 343--355.
- Erbe, L.; Ma, Ruyun; Tisdell, C. C. [On two point boundary value problems for second order differential inclusions](#). *Dynam. Systems Appl.* 15 (2006), no. 1, 79--88.
- Eloe, P.; Kaufmann, E.; Tisdell, C. C. [Multiple solutions of a boundary value problem on an unbounded domain](#). *Dynam. Systems Appl.* 15 (2006), no. 1, 53--63.
- Bohner, M.; Tisdell, C. C. [Second order dynamic inclusions](#). *J. Nonlinear Math. Phys.* 12 (2005), suppl. 2, 36--45.
- Tisdell, C. C.; Tan L. H. [On vector boundary value problems without growth restrictions](#). *JIPAM. J. Inequal. Pure Appl. Math.* 6 (2005), no. 5, Article 137, 10 pp. (electronic).
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- Ma, Ruyun.; Tisdell, C. C. [Positive solutions of singular sublinear fourth-order boundary value problems](#). *Appl. Anal.* 84 (2005), no. 12, 1199--1220.
- Henderson, J.; Tisdell, C. C. [Five point boundary value problems for third order differential equations by solution matching](#). *Math. Comput. Modelling* 42 (2005), 133--137.
- Erbe, L.; Peterson, A.; Tisdell, C. C. [Existence of solutions to second-order BVPs on time scales](#). *Appl. Anal.* 84 (2005), no. 10, 1069--1078.
- Raffoul, Y. N.; Tisdell, C. C. [Positive periodic solutions of functional discrete systems and populations models](#). *Adv. Difference Equ.* 2005 (2005), 369--380.
- Stehlik, P.; Tisdell, C. C. [On boundary value problems for second-order discrete inclusions](#). *Boundary Value Problems* 2005(2005), no. 2, 153--164.
- Amster, P.; Rogers, C.; Tisdell, C. C. [Existence of solutions to boundary value problems for dynamic systems on time scales](#). *J. Math. Anal. Appl.* 308 (2005), no. 2, 565--577.
- Hoffacker, J.; Tisdell, C. C. [Stability and instability for dynamic equations on time scales](#). *Comput. Math. Appl.* 49 (2005), no. 9-10, 1327--1334.

- Henderson, Johnny; Karna, Basant; Tisdell, Christopher C. [Existence of solutions for three-point boundary value problems for second order equations](#). *Proc. Amer. Math. Soc.* 133 (2005), no. 5, 1365--1369 (electronic).
- Henderson, J.; Tisdell, C. C.; Yin, W. K. C. [Uniqueness implies existence for three-point boundary value problems for dynamic equations](#). *Appl. Math. Lett.* 17 (2004), no. 12, 1391--1395.
- Tisdell, Christopher C.; Drabek, Pavel; Henderson, Johnny. [Multiple solutions to dynamic equations on time scales](#). *Comm. Appl. Nonlinear Anal.* 11 (2004), no. 4, 25--42.
- Peterson, Allan C.; Tisdell, Christopher C. [Boundedness and uniqueness of solutions to dynamic equations on time scales](#). *J. Difference Equ. Appl.* 10 (2004), no. 13-15, 1295--1306.
- Henderson, Johnny; Tisdell, Christopher C. [Boundary data smoothness for solutions of three point boundary value problems for second order ordinary differential equations](#). *Z. Anal. Anwendungen* 23 (2004), no. 3, 631--640.
- Peterson, A. C.; Raffoul, Y. N.; Tisdell, C. C. [Three point boundary value problems on time scales](#). *J. Difference Equ. Appl.* 10 (2004), no. 9, 843--849.
- Henderson, Johnny; Peterson, Allan; Tisdell, Christopher C. [On the existence and uniqueness of solutions to boundary value problems on time scales](#). *Adv. Difference Equ.* 2004, no. 2, 93--109.
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Thompson, H. B.; Tisdell, C. C. [Nonlinear multipoint boundary value problems for weakly coupled systems](#). *Bull. Austral. Math. Soc.* 60 (1999), no. 1, 45--54.