

Areas of Specialization: HISTORY AND PHILOSOPHY OF MATHEMATICS AND SCIENCE; LOGIC.

Areas of Competence: EPISTEMOLOGY; ETHICS; HISTORY OF PHILOSOPHY; METAPHYSICS; PHILOSOPHY OF LANGUAGE.

1 Personal Details

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Nationality: British.

Marital Status: Single.

Sex: Male.

Date of Birth: May 31, 1970.

2 Recent Career

Current: Associate Professor (Assistant Professor until Spring 2007), Humanities and Communication, Florida Institute of Technology.

Courses taught:

- HUM 2051 *Civilization I: Ancient through medieval*
- HUM 2052 *Civilization II: Renaissance through modern*
- HUM 2510 *Logic*
- HUM 3085 *Special topic in humanities: Recent issues in logic*

Previous: Lecturer, Department of Philosophy, University of Edinburgh.

Courses taught:

- *Mathematical logic & philosophy of mathematics* [Honours & Masters]
- *Philosophy of science* [Honours]
- *Philosophy 2A* [Second year metaphysics course]
- *Philosophy of science 1H* [First year]

3 Educational Qualifications

Ph.D. Logic & Metaphysics, University of St Andrews. Thesis: *Revising logic*, supervisor Stephen Read, examiners Peter Clark and David Miller. Graduated 2001.

M.Litt. Logic & Metaphysics, University of St Andrews. Thesis: *Gaps, gluts and paradoxes: A comparison of some deviant approaches to the paradoxes of self-reference*, supervisor Stephen Read. All requirements completed 1994.

B.A. (Hons.) Philosophy, Grey College, University of Durham. Thesis: *Some philosophical problems concerning infinity*, supervisor Barry Gower. Graduated 1993.

4 Publications

4.1 Books &c.

The philosophy of alternative logics (with Stephen Read). In *The development of modern logic*, L. Haaparanta, ed. (Oxford: Oxford University Press, 2009), pp. 613–723.

- Available online at <http://my.fit.edu/~aberdein/AltLog.pdf>.

Mathematical argumentation (as editor, with Ian Dove). *Foundations of science* **14**(1–2), 2009, pp. 1–152.

- Contributors: Andrew Aberdein; Jody Azzouni; Edwin Coleman; Bart Van Kerkhove & Jean Paul Van Bendegem; David Sherry; Zenon Kulpa; Matthew Inglis & Juan Pablo Mejía-Ramos; Alison Pease, Alan Smaill, Simon Colton & John Lee; Ian Dove.
- Available online at <http://my.fit.edu/~aberdein/argmath/Papers.html>

4.2 Articles

Virtue in argument. *Argumentation*, forthcoming.

Argumentation schemes and communities of argumentational practice; Reply to my commentator; and Commentary on Menashe Schwed, A Wittgensteinian approach to rationality in argumentation. In *Argument cultures: The proceedings of the OSSA 2009 conference*, Juho Ritola, ed.

Antoine Arnauld; Chrysippus; Euler diagrams; Gerolamo Saccheri; Novum Organum; Port Royal Logic; Practical syllogism; Quantum logic; Rules of inference; Square of opposition; Syllogism; Theory of argumentation and William S. Jevons. In *Key terms in logic*, Jon Williamson & Federica Russo, edd. (London: Continuum, forthcoming).

Observations on sick mathematics. In *Philosophical perspectives on mathematical practice*, Bart Van Kerkhove, Jonas De Vuyst, & Jean Paul Van Bendegem, edd. (London: College Publications, forthcoming).

- Available online at <http://my.fit.edu/~aberdein/FallaciesHowlers+.pdf>.

Mathematics and argumentation. *Foundations of science* **14**(1–2), 2009, pp. 1–8.

- Available online at <http://my.fit.edu/~aberdein/ArgMathIntro.pdf>.

Logic for dogs. In *What philosophy can tell you about your dog*, Steven D. Hales, ed. (Chicago: Open Court, 2008), pp. 167–181.

- Available online at <http://my.fit.edu/~aberdein/DogLogic.pdf>.

The companions and Socrates: Is Inara a hetaera? In *Investigating Firefly and Serenity: Science fiction on the frontier*, Rhonda V. Wilcox & Tanya Cochran, edd. (London: I. B. Tauris, 2008), pp. 63–75.

Biology: Classification systems. In *Scientific thought: In context*, K. Lee Lerner & Brenda Wilmoth Lerner, edd. (Farmington Hills, MI: Gale, 2008), Vol. 1, pp. 167–176.

Fallacies in mathematics. *Proceedings of the British Society for Research into Learning Mathematics*, **27**(3), 2007, pp. 1–6.

- Available online at <http://www.bsrlm.org.uk/IPs/ip27-3/BSRLM-IP-27-3-01.pdf>.

Virtue argumentation. In *Proceedings of the Sixth Conference of the International Society for the Study of Argumentation*, Frans H. van Eemeren, J. Anthony Blair, Charles A. Willard, & Bart Garssen, edd. (Amsterdam: Sic Sat, 2007), pp. 15–19.

- Available online at <http://my.fit.edu/~aberdein/Virtue.pdf>.

The informal logic of mathematical proof. In *Perspectives on mathematical practices: Bringing together philosophy of mathematics, sociology of mathematics, and mathematics education*, B. Van Kerkhove & J. P. Van Bendegem, edd. (Dordrecht: Springer-Verlag, 2007), pp. 135–51.

- Also in *18 unconventional essays on the nature of mathematics*, Reuben Hersh, ed. (New York: Springer-Verlag, 2006), pp. 56–70.
- Available online at <http://arXiv.org/abs/math.HO/0306298>.

Raising the tone: Definition, bullshit, and the definition of bullshit. In *Bullshit and philosophy*, G. Reisch & G. Hardcastle, edd. (Chicago: Open Court, 2006), pp. 151–69.

- Available online at <http://my.fit.edu/~aberdein/Raising.pdf>.

Managing informal mathematical knowledge: Techniques from informal logic. *Lecture notes in artificial intelligence* **4108**, 2006, pp. 208–221.

- Available online at <http://my.fit.edu/~aberdein/IMKM.pdf>.

Proofs and rebuttals: Applying Stephen Toulmin's layout of arguments to mathematical proof. In *The Logica yearbook 2005*, Marta Bílková & Ondřej Tomala, edd. (Prague: Filosofia, 2006), pp. 11–23.

Induction, Mathematical. In *Continuum encyclopedia of British philosophy*, A. C. Grayling, A. Pyle, & N. Goulder, edd. (London: Continuum, 2006).

Introduction to the new edition. In Euclid's *The elements: Books I–XIII* (New York: Barnes & Noble, 2006), pp. vii–xvii.

The uses of argument in mathematics. *Argumentation* **19**(3), 2005, pp. 287–301.

- Reprinted in *Arguing on the Toulmin model: New essays in argument analysis and evaluation*, D. Hitchcock & B. Verheij, edd. (Dordrecht: Springer-Verlag, 2006), pp. 327–39.
- Also in *The uses of argument*, D. Hitchcock & D. Farr, edd. (Hamilton, ON: OSSA, 2005), pp. 1–10.
- Available online at <http://arXiv.org/abs/math.H0/0504090>.

William Burnside; Alfred Bray Kempe and Thomas Penyngton Kirkman. In *Dictionary of 19th-century British scientists*, B. Lightman, ed. (Bristol: Thoemmes Press, 2004).

Balderdash and chicanery: Science and beyond. In *Buffy the Vampire Slayer and philosophy: Fear and trembling in Sunnydale*, J. South, ed. (Chicago: Open Court, 2003), pp. 79–90.

- Published in Portuguese as *Palavrório e chicana: Ciência e além* in *Buffy a Caça-Vampiros e a filosofia: Medos e calafrios em Sunnydale*, J. South, ed., Marcos Malvezzi Leal, tr. (São Paulo: Madras, 2004), pp. 87–97.

Regional maps of HOPOS activity and infrastructure: Scotland. *Newsletter of HOPOS, The International Society for the History of Philosophy of Science* **7**(2), 2003, pp. 6–16.

- Available online at <http://cas.umkc.edu/scistud/hopos/nl/7-2.pdf>.

Classical recapture. In *Prospettive della logica e della filosofia della scienza*, V. Fano, M. Stanzione, & G. Tarozzi, edd. (Catanzaro: Rubettino, 2001), pp. 11–18.

- Available online at <http://arXiv.org/abs/math.L0/0303313>.

Post-classical logic? *Beiträge der Österreichischen Ludwig Wittgenstein Gesellschaft* **9**(1), 2001, pp. 22–28.

Persuasive definition. In *Argumentation and rhetoric*, H. V. Hansen, C. W. Tindale, & A. V. Colman, edd. (Newport News, VA: Vale Press, 1998).

- Available online at <http://my.fit.edu/~aberdein/Aberde.P.htm>.

4.3 Abstracts

Combining Toulmin layouts. *Bulletin of symbolic logic* **13**(2), 2007, p. 265.

- Available online at <http://www.math.ucla.edu/~asl/bsl/1302/1302-005.ps>.

Definition and persuasion. *12th International Congress of Logic, Methodology and Philosophy of Science: Volume of abstracts*, E. Alvarez, R. Bosch, & L. Villamil, edd. (Oviedo: University of Oviedo Press, 2003), p. 495.

Anomalies and the development of non-classical logic. *Collegium logicum: Annals of the Kurt Gödel Society* **4**, 2001, p. 43.

- Reprinted in *Bulletin of symbolic logic* **8**(1), 2002, p. 123.
- Available online at <http://www.math.ucla.edu/~asl/bsl/0801/0801-006.ps>.

Recapture and progress in logic. *11th International Congress of Logic, Methodology and Philosophy of Science: Volume of abstracts*, J. Cachro & K. Kijania-Placek, edd. (Cracow: Jagiellonian University Press, 1999), p. 248.

How to be a deviant logician: A taxonomy of logical difference. *Bulletin of symbolic logic* **4**(4), 1998, pp. 448–9.

- Available online at <http://www.math.ucla.edu/~asl/bsl/0404/0404-005.ps>.

4.4 Reviews

John Ziman *Real science: What it is, and what it means*. *Metapsychology* 7(35), 2003.

· Available online at <http://mentalhelp.net/books/books.php?type=de&id=1864>.

Douglas Walton *One-sided arguments: A dialectical analysis of bias*. *Philosophy in review* 21(2), 2001, pp. 152–4.

Dale Jacquette *Meinongian logic*. *Philosophy in review* 17(3), 1997, pp. 176–8.

Edouard Morot-Sir *The imagination of reference II: Perceiving, indicating, naming*. *Canadian philosophical reviews* 16(4), 1996, pp. 270–1.

4.5 Invited Lectures

Mathematical fallacies and informal logic. *Philosophy Department Colloquium*, University of Nevada, Las Vegas, February 2008.

Recent issues in logic. *Computer Sciences Seminar*, Florida Institute of Technology, October 2004.

Mathematical argumentation: A pragma-dialectical approach. *Staff Research Symposium*, University of Edinburgh, March 2003.

Quantum logic. *Computer Science Seminar Series*, University of Liverpool, January 2002.

Applying Lakatos to logic. *Programmes in Mathematics Conference*, University of Hertfordshire, July 1999.

4.6 Conference Papers

Communities of logical practice. *Practice-based philosophy of logic and mathematics workshop*, University of Amsterdam, August 2009.

Arguing over mathematics. *Two streams in the philosophy of mathematics: Rival conceptions of mathematical proof*, University of Hertfordshire, Hatfield, July 2009.

Argumentation schemes and communities of argumentational practice; and Commentary on Menashe Schwed, A Wittgensteinian approach to rationality in argumentation. *Argument Cultures: Ontario Society for the Study of Argumentation Conference*, University of Windsor, ON, June 2009.

Mathematical luck. *Florida Philosophical Association Conference*, Daytona Beach, FL, November 2008.

A shaggy dog story. *2nd Annual Lighthearted Philosophers' Society Meeting*, St. Petersburg College, St. Petersburg, FL, October, 2008.

Is mathematical reasoning just reasoning about mathematics? *British Society for the Philosophy of Science Summer Conference*, University of St. Andrews, July 2008.

Is mathematical reasoning just reasoning about mathematics? *PhiMSAMP-3: Is Mathematics Special?*, Universität Wien, May 2008.

The virtues of argument. *Joint Session of the Aristotelian Society and the Mind Association*, University of Bristol, July 2007.

Fallacies in mathematics. *British Society for Research into Learning Mathematics Day Conference*, Sheffield Hallam University, June 2007.

Learning from our mistakes—but especially from our fallacies and howlers. *PMP 2007: Perspectives on Mathematical Practices*, Vrije Universiteit Brussel, March 2007.

Blasphemy and pornography as speech acts. *Conference on Heresy, Blasphemy, and Freedom of Expression*, University of Central Florida, Orlando, FL, January 2007.

Managing informal mathematical knowledge: Techniques from informal logic. *MKM 2006: The 5th International Conference on Mathematical Knowledge Management*, Wokingham, UK, August 2006.

Combining Toulmin layouts. *Association of Symbolic Logic European Meeting*, Radboud University, Nijmegen, July 2006.

- Virtue argumentation. ISSA 2006: Sixth Conference of the International Society for the Study of Argumentation*, University of Amsterdam, June 2006.
- Companions and Socrates. SC2: The Slayage Conference on the Whedonverses*, Gordon College, Barnesville, GA, May 2006.
- Hybrid pluralism. Florida Philosophical Association Conference*, University of Central Florida, Cocoa Beach, FL, November 2005.
- Hybrid pluralism. Joint Session of the Aristotelian Society and the Mind Association*, University of Manchester, July 2005.
- Insane troll logic: Popular culture as philosophical heuristic. Bring Your Own Subtext: Social life, human experience and the works of Joss Whedon*, University of Huddersfield, June 2005.
- The uses of argument in mathematics. 19th International Symposium LOGICA 2005*, Hejnice Monastery, Czech Republic, June 2005.
- The uses of argument in mathematics; and Reply to Daniel H. Cohen, When arguments backfire. Ontario Society for the Study of Argumentation Conference*, McMaster University, May 2005.
- Insane troll logic: Popular culture as philosophical heuristic. SC1: The Slayage Conference on Buffy the Vampire Slayer*, Nashville, TN, May 2004.
- Definition and persuasion. 12th International Congress of Logic, Methodology and Philosophy of Science*, Universidad de Oviedo, August 2003.
- Mathematical argumentation: A pragma-dialectical approach. PMP 2002: Perspectives on Mathematical Practices*, Vrije Universiteit Brussel, October 2002.
- Balderdash and chicanery. Blood, Text and Fears*, UEA Norwich, October 2002.
- Deviance, logic and deviant logic. Society for the Social History of Medicine Research Symposium*, University of Manchester, July 2002.
- Three grades of supernatural involvement. Postmodernism and Spirituality Conference*, University of Central Lancashire, Preston, March 2002.
- Anomalies and the development of logic. British Logic Colloquium*, University of Manchester, September 2001.
- Post-classical logic? 24th International Wittgenstein Symposium*, Kirchberg, Austria, August 2001.
- Anomalies and the development of non-classical logic. Association of Symbolic Logic European Meeting*, Technische Universität Wien, August 2001.
- Whatever happened to quantum logic? British Society for the Philosophy of Science Summer Conference*, University of York, July 2001.
- Recapture and progress in logic. 11th International Congress of Logic, Methodology & Philosophy of Science*, Jagiellonian University, Cracow, August 1999.
- How to be a deviant logician: A taxonomy of logical difference. Association of Symbolic Logic Annual Meeting*, University of Toronto, May 1998.
- Persuasive definition. Ontario Society for the Study of Argumentation Conference*, Brock University, St Catharines, Canada, May 1997.

5 Academic Referees

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