

CURRICULUM VITAE

for

Michael Aristidou

Personal Data

Born: June 7, 1975 in Athens, Greece, Cyprus citizen.
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Education

1995–99 BS in Mathematics, Aristotle University of Thessaloniki, Greece.
(Advisor: Dr. M. Panteki).
1999–01 MS in Mathematics, Louisiana State University, USA.
2001–04 MA in Philosophy, Louisiana State University, USA.
(Advisor: Dr. J. Cogburn).
2001–05 Ph.D. in Mathematics, Louisiana State University, USA.
(Advisor: Dr. G. Ólafsson).

Professional Experience

1993–95 Sub-Lieutenant in the Cyprus Armed Forces.
1999–05 Teaching Assistant at Louisiana State University.
2003 (Summer) Worked on a MatLab Program for a gateway Wavelets course.
Math 2025, “Wavelets made easy”, Louisiana State University.
(Instructor: Prof. G. Ólafsson). Supported by NSF Grant DMS-0139783.
2004 (Summer) Worked on the Preparation of Class Notes for a gateway Wavelets course.
Math 2025, “Wavelets made easy”, Louisiana State University.
(Instructor: Prof. G. Ólafsson). Supported by NSF Grant DMS-0139783.
2005–2009 Assistant Professor at DigiPen Institute of Technology.
2009–present Assistant Professor at Barry University.
2010–present Adjunct Professor at Florida International University

Publications

a: Published

- 1) Games in Fuzzy Environments (with S. Sarangi), *Southern Economic Journal*, 2006.
- 2) Differential Recursion Relations for Laguerre Functions on Symmetric Cones (with G. Ólafsson and M. Davidson), *Bulletin des Sciences Mathématiques*, 2006.
- 3) Laguerre Functions Associated to Euclidean Jordan Algebras (Dissertation), *ProQuest/UMI*, 2006.
- 4) Laguerre Functions on Symmetric Cones and Recursion Relations in the Real Case (with G. Ólafsson and M. Davidson), *Journal of Computational and Applied Mathematics*, 2007.
- 5) Logarithm of the Discrete Fourier Transform (with J. Hanson), *International Journal of Mathematics and Mathematical Sciences*, 2007.

- 6) Fuzzy Ordering of Fuzzy Numbers (with E. Osaben and A. Yopp), *Advances in Fuzzy Sets and Systems*, 2008.
- 7) The VQM-Group and its Applications (with Xin Li), *International Journal of Algebra*, 2008.
- 8) A Note on Quaternion Rings over \mathbb{Z}_p (with A. Demetre), *International Journal of Algebra*, 2009.
- 9) A Property of the Roots of r -D Rook Polynomials, *Ars Combinatoria*, 2010 (to appear).

b: In preparation

- 1) Nilpotent and Idempotent Elements in Quaternion Rings over \mathbb{Z}_p (with A. Demetre).
- 2) Properties of Fuzzy Addition with respect to Fuzzy Ordering (with E. Osaben and A. Yopp).
- 3) A Note on Fuzzy Subgroups of S_n (with G. Walters and A. Merrill).
- 4) Philosophical Implications of *Mass Effect* (with B. Bassalo), *Teaching Philosophy*, 2009 (under review).
- 5) Symmetric Patterns Generated from the Finite Fields \mathbb{Z}_p (with T. Brossmann).
- 6) *Socrates Superstar*: A Song about Socrates and How could be Used in Class.
- 7) Euclidean Theorems behind Modern Animation Techniques: Motivating Students to Learn Geometry.

c: Other (unpublished)

- 1) Causal Structural Platonism (with J. Megill).
- 2) Irrationality Re-Examined: A Non-Classical Approach to Linda's Paradox.
- 3) Multi-Objective Agents and Other Applications of Fuzzy Sets in Games (with J. Gault)
- 4) Personality Driven Agents Using Fuzzy Hedging Techniques (with D. Ventrees)

Presentations

- 1) June 1999: From the Equation Solvability Theory to the Group Theory of Galois (Special Topic/Thesis Defense, Aristotle University).
- 2) May 2000: Fibonacci Triangles (Communicating Mathematics Seminar, Louisiana State University).
- 3) May 2004: Irrationality and Human Reasoning (Thesis Defense, Louisiana State University).
- 4) October 2004: Are Humans So Irrational? (Philosophy Club, Louisiana State University).
- 5) November 2004: Laguerre Functions for the Cone of Positive Definite Real Matrices (Graduate Student Seminar, Louisiana State University).
- 6) February 2005: Consistency, Probability and Human Rationality (Math Club, Louisiana State University).
- 7) July 2005: Laguerre Functions Associated to Euclidean Jordan Algebras (Dissertation Defense, Louisiana State University).
- 8) March 2006: Odysseus beyond Odyssey (Seminar for the course "Mythology for Game Designers", DigiPen Institute of Technology).
- 9) March 2006: Fuzzy Sets and Groups (Math Colloquium, DigiPen Institute of Technology).
- 10) June 2006: Lie Algebra Actions on Tube Domains and Laguerre Functions (MAA PNW Section Meeting, Southern Oregon University).
- 11) June 2006: Fuzzy Numbers and Fuzzy Groups (MAA PNW Section Meeting, Southern Oregon University).
- 12) April 2008: Quaternions: Their Interesting Algebra and Some Applications (Invited Talk, University of Puget Sound).
- 13) April 2009: A Note on Quaternion Rings over \mathbb{Z}_p (MAA PNW Section Meeting, Central Washington University).
- 14) November 2009: "Optimus" Prime (Barry University Math Club).

Conferences/Reviewing

- 1) Summer 2004: Participated in the "Workshop in Special Functions and Harmonic Analysis", Irsee, Germany.
- 2) Spring 2005: Participated in the AMS/MAA Joint Meetings, Atlanta, USA.
- 3) Spring 2006: Participated in the Faculty Development Seminar "Conflict Resolution in the Classroom", DigiPen Institute of Technology, Redmond, USA.
- 4) Spring 2006: Attended the National Teleconference "Cultivating Campus Cultures that Value Student Success", DigiPen Institute of Technology, Redmond, USA.

- 5) Spring 2006: Attended "10th Annual PNW Number Theory Conference" DigiPen Institute of Technology, Redmond, USA.
- 6) Summer 2006: Attended the Instructor's Workshop "Elements of Effective Teaching", ITT Technical Institute, Seattle, USA.
- 7) Summer 2006: Participated in the "MAA PNW Section Meeting", Southern Oregon University, Ashland, Oregon, USA.
- 8) Spring 2007: Reviewer for WSEAS (World Scientific and Engineering Academy and Society) [Reviewed 3 papers for conferences and publications].
- 9) Spring 2007: Organizer of two Sessions at the "MAA PNW Section Meeting", Linfield College, McMinnville, Oregon, USA [(1) Student Papers and Undergraduate Research Projects, (2) Alternative Teaching Methods and Projects in Undergraduate Mathematics Courses].
- 10) Spring 2008: Reviewer of a chapter on Fuzzy Logic in "The Handbook of Technology Management" (John Wiley and Sons).
- 11) Spring 2009: Blurb on the book *Philosophy Through Video Games*, by J. Cogburn and M. Silcox (Routledge).
- 12) Spring 2009: Organizer of two Sessions at the "MAA PNW Section Meeting", Central Washington University, Ellensburg, WA, USA [(1) Undergraduate Research Papers, (2) Student Poster Session].

Honors and Grants

1994–95: Sub-Lieutenant, Cyprus Armed Forces.

1996–97: Scholarship, Aristotle University.

1997–98: Scholarship, Aristotle University.

2005 (Spring): Focused Research Award.

2009: State Teacher Quality Grant (Content Developer - grades 9-12). Supported by the Florida Dept. of Education.

Research Interest

- 1) Jordan Algebras, Representations of Lie Groups and Lie Algebras, in relation to Special Functions.
- 2) Quaternion Algebra and Applications.
- 3) Linear Algebra and Discrete Mathematics, their connections and applications. Rook Polynomials.
- 4) Fuzzy Algebraic Structures, Fuzzy Sets and Logic and their applications to Philosophy, Psychology, A.I. and Game Theory.
- 5) Philosophy (in general), Philosophy of Computer Games, and Philosophy and History of Mathematics.
- 6) Undergraduate Research.

Student Research and Projects

- 1) Supervised R. Casey and M. Hensler on a paper entitled "Fuzzy Steering for Autonomous MCU-based Mobile Robotics", which was accepted to the "5th WSEAS International Conference on Computational Intelligence, Man-Machine Systems and Cybernetics" in Venice, Italy, 2006. The paper was also published in the *Transactions of Systems and Control* of the WSEAS.
- 2) Supervised M. Grigsby and R. Martija on a project entitled "Conjectures for Rook Polynomials in 3-D", which was presented at the "MAA PNW Section Meeting" in Oregon, USA, 2007.
- 3) Supervised M. Anderson and S. Niedzielski on a project entitled "A Method of Calculating Volume using IR-Sensors and Riemann Sums", which was presented at the "MAA PNW Section Meeting" in Oregon, USA, 2007.
- 4) Co-authored with E. Osaben and A. Yopp a paper entitled "Fuzzy Ordering of Fuzzy Numbers", published in the *Advances in Fuzzy Sets and Systems*, 2008.

University Service

- 1) 2000: Grader in the annual Louisiana Math Rally.
- 2) 2001-04: Proctor in the annual Louisiana Math Rally.
- 3) 2006-08: Chair of the Math Colloquium Committee at DigiPen Institute of Technology.
- 4) 2006: Designed the course "Fuzzy Sets and Logic" at DigiPen Institute of Technology.
- 5) 2006: Organizer, and Chair, of the Undergraduate Research Group at DigiPen Institute of Technology.
- 6) 2006-08: Member of the Graduate Studies Committee at DigiPen Institute of Technology.

- 7) 2007: Designed the course "Introduction to Philosophy" at DigiPen Institute of Technology.
- 8) 2007: Committee Chair for the Master's Thesis defense of P. Moghames entitled "Deconstructing a Neural Network" at DigiPen Institute of Technology.
- 9) 2008: Committee Member for the Master's Thesis defense of C. Deeb entitled "CIG-C: A hierarchical Approach to Continuum Crowds" at DigiPen Institute of Technology.
- 10) 2009: Designed the course "Introduction to Topology" at DigiPen Institute of Technology.

Miscellaneous

- 1) Published articles in *Reveille* (LSU), *Davlos* (2006), *Free Inquiry* (Gr) (2009) and *Mentor* (2009).
- 2) Published poetry in *Reflections: A Journal of Poetry and Arts* (2002).
- 3) Founder and President of the *Hellenic Student Association* (2003).
- 4) Represented Greece at the *Multicultural Fair at Buchanan Elementary*, for the promotion of Greek History and Culture (2003).
- 5) Represented Greece at the annual *Louisiana State International Expo*, for the promotion of Greek Culture (2002, 2003, 2004).
- 6) Organizer of the *1st Speed-Chess Tournament* at Louisiana State University (2005).
- 7) Represented Greece and Cyprus for the *Multicultural Day at Park Ridge Elementary*, giving small seminars on Greek History and Culture (2005).
- 8) Served as a judge for *Redmond's High Culminating Projects* (2006).
- 9) Taught 1st-grade Greek language at St. Demetrius Elementary Greek School in Seattle (2006).
- 10) Gave a talk entitled "Some of the Arguments For and Against the Existence of God: Analysis and Discussion" at Capitol Hill Library (2008).

Teaching Experience

LSU

Fall 1999:	Math 1021, 1022, 1550	College Algebra, Trigonometry, Calculus
Spring 2000:	Math 1021, 1022, 1550	College Algebra, Trigonometry, Calculus
Fall 2000:	Math 1021	College Algebra
Spring 2001:	Math 1021	College Algebra
Fall 2001:	Math 1021	College Algebra
Spring 2002:	Math 1022	Trigonometry
Fall 2002:	Math 1021	College Algebra
Spring 2003:	Math 1021	College Algebra
Fall 2003:	Math 1021	College Algebra
Spring 2004:	Math 2020	Discrete Problem Solving
Fall 2004:	Math 1023	College Algebra and Trigonometry (Pre-Calculus)

DIT

Fall 2005:	Math 200	Multivariable Calculus
Fall 2005:	Math 258	Discrete Mathematics
Spring 2006:	Math 258	Discrete Mathematics
Spring 2006:	Math 140	Linear Algebra
Summer 2006:	Math 362	Fuzzy Sets and Logic
Fall 2006:	Math 200 (new cat.)	Calculus
Fall 2006:	Math 258	Discrete Mathematics
Spring 2007:	Math 140	Linear Algebra
Spring 2007:	Math 250	Advanced Linear Algebra
Summer 2007:	Math 362	Fuzzy Sets and Logic
Fall 2007:	Math 140	Linear Algebra
Fall 2007:	Math 250	Advanced Linear Algebra
Spring 2008:	Math 258	Discrete Mathematics
Spring 2008:	Math 351	Quaternions, Interpolation and Animation
Summer 2008:	Phil 150	Introduction to Philosophy

Fall 2008:	Math 250	Advanced Linear Algebra
Fall 2008:	Math 258	Discrete Mathematics
Spring 2009:	Math 140	Linear Algebra
Spring 2009:	Math 351	Quaternions, Interpolation and Animation
Spring 2009:	Phil 150	Introduction to Philosophy
Summer 2009:	Math 362/562	Fuzzy Sets and Logic

BU

Fall 2009:	Math 095	Preparatory Math III [College Algebra]
Fall 2009:	Math 110	PreCalculus Math II [Trigonometry]
Fall 2009:	Math 332	Linear Algebra
Spring 2010:	Math 109	PreCalculus Math I
Spring 2010:	Math 110	PreCalculus Math II [Trigonometry]
Spring 2010:	Math 487	Advanced Math Seminars [Quaternion Algebra]

FIU

Spring 2010:	Math 1114	Preparatory Math III [Trigonometry]
Spring 2010:	Math 1015	PreCalculus Math II [College Algebra]

Notes

1. For Fall 1999 and Spring 2000, I was a tutor for the corresponding classes.
2. From Fall 2000 to Fall 2004, I was the instructor /TA (Teaching Assistant) for the corresponding classes [except Spring 2004, which I was the TA for Math 2020].
3. For Spring 2005 I was assigned to teach Calculus 1550, but I got relieved of my teaching duties due to the Focused Research Award.
4. From Fall 2005 to present, I was the professor for the corresponding classes.