
Curriculum Vitae

Stephen Neil Wheatley

Department of Mathematics
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Education

George Mason University:

Ph.D. in Mathematics, May 2020, Dissertation entitled *Clopen Subsets of X^* and 2- Homeomorphic Spaces*, Ronnie Levy, advisor

American University:

M.A. in Mathematics, May 2006

Roanoke College:

B.B.A. (*Summa Cum Laude*, Valedictorian), May 2003

Academic Appointments

Montgomery College, Professor, August 2020 – Present

Associate Professor, August 2014 – July 2020

Assistant Professor, August 2010 – July 2014

Instructor, August 2008 – July 2010

American University, Instructor, January 2007 – July 2008

Area of Research

Set-Theoretic Topology

Publications

Characterizations of 2-homeomorphism and 2-homeomorphic spaces, Questions and Answers in General Topology, **38**(2) 2020, 147 – 156.

Clopen subsets of X^ and 2-homeomorphic spaces*, Ph.D. Thesis, George Mason University, 2020.

Invited Talks

To Prove or Not to Prove in the Maryland Collegiate STEM Conference, May 2021.

Metric Compactifications of ω in the George Mason University Topology Seminar, March 2021.

Characterizations of 2-Homeomorphic Spaces in the Graduate Online Anything Topology Series, June 2020.

Introduction to 2-Homeomorphisms in the Richmond Area Mathematical Sciences Conference, March 2020.

Algebraic and Transcendental Numbers in the Rockville Math Series at Montgomery College, April 2018.

*Continuous Extensions of Autohomeomorphisms of X^** in the American Mathematical Society Special Session on Set-Theoretic Topology, Raleigh, North Carolina, November 2017.

Calculations on Riemann Surfaces in the Ann Robyn Mathias Student Research Conference at American University, April 2006.

Valedictory Address in the Commencement Exercises of Roanoke College, May 2003.

Honors and Awards

Honors Faculty Fellow, Montgomery College, Fall 2020.

Section NExT Fellow, Mathematical Association of America, Fall 2008 – Spring 2009.

Graduate Teaching Assistantship, Virginia Polytechnic Institute and State University, 2006.

Summer Research Scholarship, American University, Summer 2005.

Graduate Teaching Assistantship, American University, 2004 – 2006.

Valedictorian, Graduating Class of 2003, Roanoke College, 2003.

Senior Scholar in Business Administration, Roanoke College, 2003.

Outstanding Student in Accounting, Roanoke College, 2003.

Alpha Lambda Delta Award, Roanoke College, 2003.

Alpha Kappa Psi Key, Roanoke College, 2003.

Member, Alpha Chi honor society, Roanoke College, 2002.

Member, Alpha Lambda Delta honor society, Roanoke College, 2000.

David S. Bittle academic scholarship, Roanoke College, 1999 – 2003.

Teaching

Montgomery College

Courses Taught (on-campus):

- Developmental Mathematics
- Intermediate Algebra
- Elements of Statistics
- Survey of College Mathematics
- Pre – Calculus
- Calculus I
- Calculus II
- Multivariable Calculus
- Linear Algebra
- Honors Advanced Calculus

Courses Taught (online):

- Survey of College Mathematics
- Multivariable Calculus

Independent Study Supervision:

- Abstract Algebra, one student, Spring 2010.
- General Topology, three students, Fall 2015.
- Real Analysis, one student, Spring 2017.
- Boolean Algebras, one student, Spring 2017.

Research Project Supervision:

- The Scientific Quest for Exoplanets*, Arthur Schwab, 2009.
- Perspectives on Boolean Algebras*, Aranje Sripanjalingam, 2017.

Academic Mentoring:

- Mentor for five student learning assistants in *Pre – Calculus*, *Calculus I*, and *Multivariable Calculus*, 2013 – 2019.

American University

Courses Taught:

- Basic Algebra
- Finite Mathematics
- Order, Structure, and Chaos
- Pre – Calculus
- Basic Statistics
- Applied Calculus
- Calculus I

Curriculum Development

Proposed, designed and taught the MC Honors Mathematics course HONR-265, *Advanced Calculus*, 2013 – present.

Participated in the general education certification process for *Pre-Calculus*, to insure the course met college-wide general education standards, 2018.

Participated in the restructuring of the MC college-level math survey courses, to combine two courses into one, and to make the topics more relevant to non-math majors, 2014 – 2015.

Participated in the updating of the AU *Basic Statistics* courses, to bring various versions of this course more in line with each other and create one standardized, core course, 2007 – 2008.

Departmental Service

Organizer and faculty advisor of student Math Club (planned meetings and speakers, and gave math presentations to students), 2009 – present.

Member, departmental awards committee (selected distinguished mathematics students to receive departmental awards), 2011 – present (chair 2011 – 2020).

Organizer of the departmental speakers program (selected and planned speakers to give extra curricular mathematics talks to students and faculty), 2010 – present.

Course Coordinator, *Multivariable Calculus* (point of contact for faculty in the department teaching the course, as well as insuring the course passed various College-wide review processes), 2009 – present.

Organizer of the Montgomery College team for the nationwide William Lowell Putnam mathematics competition (conducted practice sessions and administered exam), 2015, 2017.

Organizer of the Montgomery College team for the nationwide AMATYC Student Math League competition (conducted practice sessions and administered exam), 2010 – 2020.

Organizer/Coach of the Montgomery College team for the regional SMART team mathematics competition (conducted practice sessions and coached team during competition), 2009 – 2015, 2018 – 2019.

Member, course committee for *Survey of College Math* (developed uniform standards for course content across all sections of the course, and insured course passed various College-wide review processes), 2017 – present.

Departmental liaison to Physics and Engineering departments (communicated with faculty from the physics and engineering departments at Montgomery College to insure alignment of course topics and timelines in pre- and co-requisite courses), 2014 – 2017.

College Service

Organizer for the Montgomery College STEM Undergraduate Research Conference,
2017 – 2019.

Sabbatical Leave Committee member, 2012 – 2014, 2016 – 2017.

Professional Service

Co-organizer of the Mathematical Association of America MDDCVA Section Meeting,
held at Montgomery College in Spring 2016.

Participant in the American Diploma Project's Algebra/Pre – Calculus Reform workshop,
2009.

Reviewer for Cengage.