Mathematics

Nasrine Bendjilali

Assistant Professor
Mathematics

bendjilali@rowan.edu
https://academics.rowan.edu/csm/departments/math/facultystaff/faculty/Bendjilali/bendjilali-nasrine.html

Education:
BS (Applied Mathematics), University of Petra, Amman, Jordan
MS (Mathematics), Lehigh University
PhD (Applied Mathematics), Lehigh University
Postdoctoral (Center for Cerebrovascular Research), University of California, San Francisco

Research Expertise:
Multiple testing procedures and their applications in biomedical research | Statistical methods for genetic mapping of human traits | Genetic risk factors contributing to development of complex human diseases

My research focuses on identifying genetic risk factors contributing to complex human diseases including cardiovascular and cerebrovascular diseases, in addition to designing and analyzing high-throughput genomic data. I am also interested in developing statistical procedures motivated by questions arising in biological research; in particular, developing multiple testing procedures to address the problem of multiplicity in high-dimensional data analysis.

Member of:
American Statistical Association; Mathematical Association of America; American Society of Human Genetics; European Society of Human Genetics.

Recent Academic Projects:
Gene-diet interaction and risk of cardiovascular diseases.

Recent Publications:

Bendjilali N, MacLeon S, Kalra G, Willis SD, Hossian AK, Avery E, Wojtowicz O, Hickman MJ (2017) Time-course analysis of gene expression during the saccharomyces cerevisiae hypoxic response. G3: Genes|Genomes|Genetics. 7:221-31.

Weinsheimer S, Bendjilali N, Nelson J, Guo D, Zaroff J, Sidney S, McCulloch E, Salman R, Berg J, Koeleman B, Simon M, Bostrom A, Fontanella M, Sturiale C, Pola R, Puca A, Lawton M, Young W, Pawlikowska L, Klijn CJ, Kim H (2016) Genome-wide association study of sporadic brain arteriovenous malformations. J Neurol Neurosurg Psychiatry. 87:916-23.

Kremer PH, Koeleman BP, Pawlikowska L, Weinsheimer S, Bendjilali N, Sidney S, Zaroff JG, Rinkel GJ, van den Berg LH, Ruigrok YM, de Kort GA, Veldink JH, Kim H, Klijn CJ (2015) Evaluation of genetic risk loci for intracranial aneurysms in sporadic arteriovenous malformations of the brain. J Neurol Neurosurg Psychiatry. 86:524-9.

Bendjilali N, Nelson J, Weinsheimer S, Sidney S, Zaroff JG, Hetts SW, Segal M, Pawlikowska L, McCulloch CE, Young WL, Kim H (2014) Common variants on 9p21.3 are associated with brain arteriovenous malformations with accompanying arterial aneurysms. J Neurol Neurosurg Psychiatry. 85:1280-3.

Bendjilali N, Hsueh WC, He Q, Willcox DC, Nievergelt CM, Donlon TA, Kwok PY, Suzuki M, Willcox BJ (2014) Who are the okinawans? Ancestry, genome diversity, and implications for the genetic study of human longevity from a geographically isolated population. J Gerontol A Biol Sci Med Sci. 69: 1474-1484.

Abdul Hassen

Professor
Mathematics

hassen@rowan.edu
http://users.rowan.edu/~hassen

Education:
BS (Mathematics), Addis Ababa University, Ethiopia
MS (Mathematics), Addis Ababa University, Ethiopia
PhD (Mathematics), Temple University, Philadelphia, PA

Research Expertise:
Analytic and Elementary Number Theory | Generalized Bernoulli and Euler Numbers and Polynomials

My research interests are in the area of Analytic and Analytic Number Theory. I am interested in characterization of Automorphic integral associated with Hekce groups.

Currently, I am working on the determination of those automorphic integrals with prescribed poles of any order and any number of poles. I also am working on problems related to generalized Euler numbers and polynomials. Related to these polynomials are the Hypergeometric Bernoulli polynomials, which generalize the classical Bernoulli numbers via their generating function. These new polynomials have many similar properties as the classical ones as well as some properties unique to them. For example, their complex zeros seem to converge to a curve in the complex plane but the exact curves are not known

I also work with graduate and undergraduate students on research projects from Euler's papers as well as partition functions.

Recent Publications:

Hassen A, Roibal A. (2016) Triangles on the Lattice of Integers, Mathematics and Computer Education Journal, In press.

Geleta HL, Hassen A. (2016) Fractional Hypergeometric Zeta Functions. Ramanujan J. 41: 421-436.

Geleta HL, Hassen A, Mohammed, S. (2015) Series Representation of the Second Order Hypergeometric Zeta Function, Journal for Algebra and Number Theory Academia, in press.

Karen Heinz

Professor
Mathematics

heinz@rowan.edu

Education:
BS (Mathematics), The Pennsylvania State University
MA (Mathematics), The Ohio State University
PhD (Curriculum and Instruction with an emphasis in Mathematics Education),
The Pennsylvania State University

Research Expertise:
Mathematics Education | Teacher Development

My scholarly work is in two major domains: directing grant-funded projects that provide professional development to mathematics teachers and researching teacher development.

The purpose of my grant-funded projects has been to provide professional development to teachers in grades K to 12 to help them develop their understandings of mathematics content, mathematics learning, mathematics teaching, and mathematics state standards. My research focuses on teachers' mathematical conceptions and how those conceptions develop.

Honors and Awards:
Distinguished Research in Teacher Education Award, Association of Teacher Educators (2000)

Member of:
Association of Mathematics Teachers of New Jersey (www.amtnj.org)
National Council of Teachers of Mathematics (www.nctm.org)

Recent Publications:

Heinz K, Shown TE (2014) Using triangular numbers as "steps" when constructing quadratic and cubic sequences, Mathematical Spectrum. 47:11-18.

Heinz K, Sterba-Boatwright B (2008) The when and why of using proportions. Mathematics Teacher. 101:528-533.

Simon MA, Tzur R, Heinz K, Kinzel M (2004) Explicating a mechanism for conceptual learning: Elaborating the construct of reflective abstraction. Journal for Research in Mathematics Education. 35:305-329.

Marlena Herman

Professor
Mathematics

herman@rowan.edu

Education:
BS (Secondary Mathematics Education), Indiana University of Pennsylvania
MEd (Teaching and Curriculum), Pennsylvania State University
PhD (Mathematics Education), The Ohio State University

Research Expertise:
Mathematics Education

Teaching and learning mathematics with technology
Use of graphing calculators and data collection devices in the mathematics or science classroom
Application of mathematics concepts, especially physics (e.g., mathematical modeling, parametrics)
Mathematical topics: golden numbers, home primes, conic sections

Member of:
National Council of Teachers of Mathematics (http://www.nctm.org/)
The Association of Mathematics Teachers of New Jersey (http://amtnj.org/)

Recent Publications:
Herman M, Schiffman J (2014) Exploring Home Primes. Mathematics Teacher. 107:606-614.

Herman M, Meagher M, Abrahamson L, Owens D (2013) Student Perceptions of Use of a Classroom Communication System in Mathematics Classes. International Journal for Technology in Mathematics Education. 20:45-68.

Laumakis P, Herman M (2013) The Mathematics of Retirement Investing. The Mathematical Scientist. 38:43-49.

Herman M (2012) Exploring Conics: Why Does B2-4AC Matter? Mathematics Teacher. 105:526-532, plus online addendum.

Christopher Lacke

Associate Professor
Mathematics

lacke@rowan.edu
https://www.researchgate.net/profile/Chris_Lacke

Education:
BA (Mathematics and Economics), Bowdoin College
MS (Statistics), University of Southern Maine
PhD (Operations Research), North Carolina State University

Research Expertise:
Medical Decision Making | Statistics in Medicine & Health | Statistical Education

My primary research involves the applications of decision analysis, operations research, and applied statistics, primarily in medicine, health, and exercise science. I am currently involved in projects with members of the Rowan School of Osteopathic Medicine (SOM), the Rowan University Department of Health & Exercise Science, and students at SOM.

Member of:
Institute of Operations Research and the Management Sciences (INFORMS)

Recent Publications:
Cleary, DB, Riddell, WT, Lacke, CJ (2012) Effect of washer placement on performance of direct tension indicators with curved protrusions, ENG J AISC 49:55-64.

Mastrangelo, MA, Chaloupka, EC, Kang, J, Lacke, CJ, Angelucci, J, Martz, WP, Biren, GB (2004) Predicting anaerobic capabilities in 11-13 year old boys. J Strength Cond Res. 18:72-76.

Paul J. Laumakis

Professor
Mathematics

laumakis@rowan.edu

Education:
BS (Mechanical Engineering), Drexel University
MA (Mathematics), Villanova University
PhD (Applied Mathematics), Lehigh University
Post-doctoral (Mathematics), United States Military Academy

Research Expertise:
Data Analysis | Mathematics Education | Applied Mathematics

My current research involves comparing and assessing the effectiveness of different calculator technologies in the teaching and learning of college level mathematics. Additionally, my scholarship interests focus on the creation of real-world application projects for use in both the secondary and college level mathematics classroom.

Honors and Awards:
Davies Fellow, Department of Mathematical Sciences, United States Military Academy, 1993-1996.

Recent Publications:

Laumakis P, McCormack K (2014) Analyzing exercise training effect and its impact on cardiorespiratory and cardiovascular fitness. J Stat Educ. 22:1-23.

Laumakis P, Herman M (2013) The mathematics of retirement investing. The Mathematical Scientist. 38:43-49.

Laumakis P (2012) Analyzing highway speeding data in the statistics classroom, Mathematics Teacher. 105:352- 358.

Eric Milou

Professor
Mathematics

milou@rowan.edu
http://ericmilou.net

Education:
EdD (Mathematics Education), Temple University
MA (Mathematics), West Chester University
BA (Mathematics), Franklin & Marshall College

Research Expertise:
K-12 Mathematics Education Curriculum & Instruction

I am interested in curriculum and instruction development in mathematics education. Special interests include the use of technology and mathematical modeling in curriculum and instruction in grades 6-12. Recently published K-12 textbooks include Pearson's EnVisions Math Grades 6-8, EnVisions Algebra, Geometry and Algebra II, and Pearson's digits; all comprehensive middle school or high school mathematics programs.

Honors and Awards:
2009 Max Sobel Outstanding Mathematics Educator Award
2015 Rowan University Joseph Barnes Outstanding Service Award

Member of:
National Council of Teachers of Mathematics (NCTM)
National Council of Supervisors of Mathematics (NCSM)
Association of Mathematics Teachers of NJ (AMTNJ)
California Math Council (CMC)
TODOS: Mathematics for ALL

Hieu D. Nguyen

Professor
Mathematics

nguyen@rowan.edu
http://www.rowan.edu/math/facultystaff/nguyen/

Education:
BS (Mathematics and Electrical Engineering), University of Minnesota-Minneapolis
PhD (Mathematics), University of California-Berkeley

Research Expertise:
Experimental Mathematics | Coding Theory | Frames

My research interests lie broadly in experimental mathematics with a current focus on coding theory and frames.

My work on coding theory consists of two projects. The first is to construct good error-correcting codes capable of correcting insertion, deletion, and substitution errors and apply them to the design of barcodes for DNA multiplex sequencing and data storage. The second is the develop codes for two-party interactive communication that are resistant to the same types of errors.

My work on frames seeks to construct efficient algorithms to partition frames with low coherence, called tight equiangular frames (ETFs), into sets with uniform small spectral norms, and to develop applications in communications and signal processing that utilize such partitions. Current work focuses on two special types of frames: Steiner and maximal ETFs.

Member of:
Mathematical Association of America (www.maa.org)

Recent Publications:

Rosado J, Nguyen HD (2017) Partitions of equiangular tight frames. Linear Algebra Appl. 526:95-120.

Bittner D, Cheong L, Gates D, Nguyen HD (2017) New approximations for the area of the Mandelbrot set. Involve. 10:555-572.

Logan B, Nguyen HD (2016) Group symmetries of complementary code matrices. IEEE Trans Aerosp Electron Syst. 52:2255-2262.

Nguyen HD, Coxson GE (2016) Doppler tolerance, complementary code sets, and generalised Thue–Morse sequences. IET Radar Sonar Navig. 10:1603-1610.

Le TA, Nguyen HD (2016) New multiple insertion/deletion correcting codes for non-binary alphabets. IEEE Trans Inf Theory. 62:2682-2693.

Thanh Nguyen

Assistant Professor
Mathematics

nguyent@rowan.edu
http://users.rowan.edu/~nguyent/

Education:
BS & MS (Mathematics) Vietnam National University, Hanoi
PhD (Engineering Mathematics) Vrije Universiteit Brussel, Belgium
Post-doctoral: Austrian Academy of Sciences, UNC Charlotte, Iowa State University

Research Expertise:
Inverse Problems & Optimization | Modeling & Simulation | Numerical Analysis

My areas of research are in computational, applied mathematics, and engineering applications. In particular, my research interests include inverse problems for partial differential equations, optimization, numerical analysis, mathematical modeling, and applications in nondestructive testing, subsurface imaging, and medical imaging. I have published more than 30 papers in the following areas: (1) Modeling and inverse problems for the heat equations and their application in the detection and characterization of buried objects from infrared images; (2) Coefficient and shape reconstruction problems in time-domain and frequency-domain inverse scattering theory of wave and their application in the detection of airborne, through-wall and buried objects using radar measurements; (3) Evaluation of the electrical conductivity and magnetic permeability of metals from alternating current potential drop measurements. My current research projects include globally convergent inverse methods for coefficient identification problems for partial differential equations.

Member of:
Society for Industrial and Applied Mathematics (SIAM, http://www.siam.org/)

Recent Publications:

Kolesov A, Klibanov M, Nguyen L, Nguyen D-L, Thanh NT (2017) Experimental single measurement data for an inverse medium problem inverted by a multi-frequency globally convergent numerical method. Applied Numerical Mathematics 120:179-196.

Thanh NT, Beilina L, Klibanov M, Fiddy M (2015) Imaging of buried objects from experimental backscattering radar measurements using a globally convergent inverse method. SIAM J Imaging Sci. 8:757–786.

Klibanov M, Thanh NT (2015) Recovering dielectric constants of explosives via a globally strictly convex functional. SIAM J Appl Math. 75:518-537.

Sini M, Thanh NT (2015) Regularized recursive Newton-type methods for inverse scattering problems using multifrequency measurements. ESAIM Math Model Numer Anal. 49:459-480.

Beilina L, Thanh NT, Klibanov M, Malmberg JB (2015) Globally convergent and adaptive finite element methods in imaging of buried objects from experimental backscattering radar measurements. J Comput Appl Math. 289:371-391.

Thanh NT, Beilina L, Klibanov M, Fiddy M (2014) Reconstruction of the refractive index from experimental backscattering data using a globally convergent inverse method. SIAM J Sci Comput. 36:B273-293.

Thomas J. Osler

Professor
Mathematics

osler@rowan.edu
http://www.rowan.edu/open/colleges/csm/departments/math/facultystaff/osler/index.htm

Education:
BS (Physics), Drexel University
PhD (Mathematics), Courant Institute, News York University

Research Expertise:
Fractional derivatives | Complex variables | Special functions

My early work on fractional derivatives included 16 papers that are still being cited today. In the past 20 years I have published over 136 papers in mathematics and physics. Most of these are expository papers, and include topics of historical interest on Euler, the zeta function, number theory, partitions, geometry and other subjects. Over 30 were joint-authored with Rowan students.

Honors and Awards:
The Gary Hunter Mentoring Award presented by the American Federation of Teachers, 2008
The Editorial Excellence Award from the journal “Mathematics and Computer Education”, 2009
The Mathematical Association of America, New Jersey Section, Distinguished Teacher of Mathematics Award, 2009.
Oslerfest: (In honor of my 70th birthday) A two day National Mathematical Conference at Rowan University, 2010.

Member of:
American Mathematical Society
Mathematical Association of America

Recent Publications:

Osler TJ (2016) Bisecting and trisecting the arc of the lemniscate. The Mathematical Gazette, 100:471-481.

Osler TJ (2016) Iterations for the lemniscate constant resembling the Archimedean algorithm for pi. The American Mathematical Monthly. 123:90-93.

Osler TJ, Jacob W, Nishimura R (2016) An infinite product of nested radicals for log x from the Archimedean algorithm. The Mathematical Gazette. 100:274-278.

Osler TJ (2016) Another look at higher vertical motion. The Mathematical Gazette. 100:517-520.

Osler TJ, Kosior JM (2016) A sequence of good approximations for the period of a pendulum with large amplitude. The Mathematical Scientist 41:40-44.

Charalampos (Babis) Papachristou

Associate Professor
Mathematics

papachristou@rowan.edu

Education:
BS (Mathematics), Aristotle University of Thessaloniki, Greece
PhD (Statistics), The Ohio State University
Postdoctoral (Human Genetics), University of Chicago

Research Expertise:
Statistical Genetics | Biostatistics | Genetic Epidemiology

My research interests are in the areas of statistical genetics, epidemiology, and applications to biological and medical studies. I primarily develops novel methodologies for analyzing data from genetic studies to identify disease susceptibility genes. I am currently involved in variety of projects some of which aim at uncovering factors affecting asthma susceptibility, reducing drug wastage in VA hospitals, building mouse models of response to leukemia treatments, and identifying genetic markers that predict drug response to cancer treatment.

Honors and Awards:
Christian R. and Mary F. Lindback Award for Distinguished Teaching - 2013

Member of:
American Statistical Association (ASA)
International Genetic Epidemiology Society (IGES)

Recent Academic Projects:
Unlocking the Heritability of Methylation in Human DNA via the Use of Pedigree Data
Haplotype-based Tests for Detecting Gene-Environment Interactions
Exploring Factors Affecting Eating Habits of College Students
Identifying Factors Contributing to Benign Brain Tumors (Meningiomas)

Recent Publications:

Fazia T, Pastorino R Foco L, Han L, Abney M, Beecham A, Hadjixenofontos A, Guo H, Gentilini D, Papachristou C, Bitti PP, Ticca A, Berzuini C, McCauley JL, Bernardinelli L (2017) Investigating multiple sclerosis genetic susceptibility on the founder population of east-central Sardinia via association and linkage analysis of immune-related loci. Mult Scler. Epub ahead of print.

Papachristou C, Ober C, Abney M (2016) A LASSO penalized regression approach for genome-wide association analyses using related individuals: application to the Genetic Analysis Workshop 19 simulated data. BMC Proceedings. 10(Suppl 7):53.

Papachristou, C (2015) A population based confidence set inference method for SNPs that regulate quantitative phenotypes. In: Ordered Data Analysis, Modeling and Health Research Methods (Springer Proceedings in Mathematics & Statistics Vol. 149) Choudhary P, Nagaraja C, Ng H, ed. pp. 235-244, Cham:Springer.

Christopher S. Simons

Associate Professor
Mathematics

simons@rowan.edu
http://users.rowan.edu/~simons/

Education:
BSc (Mathematics), McGill University
MA (Mathematics), Princeton University
PhD (Mathematics), Princeton University

Research Expertise:
Finite group theory | Computational number theory

I am interested in extended Coxeter presentations leading to finite groups and sporadic groups including the Monster and Bimonster. This work involves both machine-aided investigation as well as more theoretical and geometric explorations. These presentations have connections to modular functions through the monstrous moonshine phenomenon.

I am also interested in aspects of computational number theory relating to integer sequences such as the chirality of integer triples and its resulting recursive properties.

Recent Publications:

Li M-S, Robertson K, Osler TJ, Hassen A, Simons CS, Wright M (2009) On numbers equal to the sum of two squares in more than one way. Math Comput Educ. 43:102-108.

Simons CS, Wright M (2007) Fibonacci imposters. Internat J Math Ed Sci Tech. 38:677-682.

Simons CS (2005) An elementary approach to the Monster. Amer Math Monthly. 112:334-341.

Simons CS, Wright M (2004) Zeroing the baseball indicator and the chirality of triples. J Integer Seq. 7:8p.

Conway JH, Simons CS (2001) 26 implies the Bimonster. J Algebra. 235:805-814.

Thayasivam Umashanger

Associate Professor
Mathematics

thayasivam@rowan.edu
http://users.rowan.edu/~thayasivam/

Education:
BSc (Statistics), University of Colombo
MS (Statistics), University of Georgia
PhD (Statistics), University of Georgia

Research Expertise:
Data Mining and Statistical Learning | Robust Estimation | Bayesian Statistics

We are pursuing several lines of research to identify and validate the use of statistical learning/data mining methods with multidisciplinary data.

Projects include:
Biomarker discovery for neurogenerative diseases
Peak detection with maximum entropy principal
Clustering mix attributes – network security
Spoof detection and Speaker identification/verification in biometrics
Assessing robust methods for analyzing multivariate data Telemedicine/Telehealth statistical learning

Member of:
American Statistical Association (www.asa.org)
Institute of Mathematical Statistics (www.imstat.org)
Institute of Applied Statistics Sri Lanka (www.iappstat.lk)
Data Science Association

Recent Publications

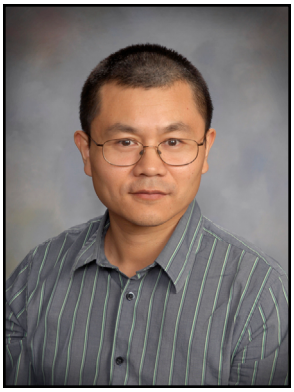
DeMarshall CA, Nagele EP, Sarkar A, Godsey G, Thayasivam U, Han M, Belinka B, Nagele RG (2017) Autoantibodies as diagnostic biomarkers for the detection and subtyping of Multiple Sclerosis, J Neuroimmol. 309:51-57.

Kabakci F, Thayasivam U (2017) Assessing robust clustering for gaussian mixtures in the presence of outliers and noise variables with component overlap - A simulation study. Computational Mathematics, Computational Geometry & Statistics (CMCGS). 175-181. Received Best Paper Award.

Edwards JS, Ramachandran RP, Thayasivam U (2017) Robust speaker verification with a two classifier format and feature enhancement. IEEE ISCAS 2017, 50th International Symposium on Circuits & Systems. Conference, Baltimore, MD

DeMarshall CA, Nagele EP, Sarkar A, Acharya NK, Godsey G, Goldwaser EL, Kosciuk M, Thayasivam U, Han M, Belinka B, Nagele RG (2016) Detection of Alzheimer's disease at mild cognitive impairment and disease progression using auto-antibodies as blood-based biomarkers, Alzheimers Dement (Amst). 3:51-62.

Thayasivam U, Hnatyshin V, Muck IB (2016) Accuracy of Class Prediction using Similarity Functions in PAM. In Proc of 2016 IEEE International Conference on Industrial Technology (ICIT), Taipei, pp. 586-591.



Min Wang

Assistant Professor
Mathematics

wangmin@rowan.edu
http://users.rowan.edu/~wangmin/

Education:
BS (Mathematics and Applied Mathematics), Ocean University of China
MS (Applied Mathematics), Ocean University of China
MS (Mathematical Sciences), Northern Illinois University
PhD (Mathematical Sciences), Northern Illinois University

Research Expertise:
Mathematical Modeling | Mathematical Finance | Data Analytics

I am a mathematician with both academic and industrial experience. As a result, my research interests are split into two categories: applied mathematics and data sciences.

As a mathematician, my research interests are in applied mathematics, which include deterministic and stochastic differential equations, mathematical modeling, numerical analysis, and their applications. Currently, I am working on several problems from biomathematics and mathematical finance.

Due to my industrial data analytic experience, I am also interested in the areas of data analytics such as risk modeling, machine learning, data visualization, and model validation. I am familiar with US consumer credit data and the predictive modeling techniques widely used in credit industry. I look forward to combining my industrial data analytic experience and math knowledge to solve problems.

Recent Academic Projects:
Feng Y, Wang M (2017) Credit valuation adjustment (CVA) for discretely monitored barrier option under stochastic jump model.

Wang M, Williams V (2017) Data analysis on Philadelphia bike sharing system.

Recent Publications:

Browne C, Wang M, Webb GF (2017) A stochastic model of nosocomial epidemics in hospital intensive care units. Electron J Qual Theory Differ Equ. 6:1-12.

Graef JR, Kong L, Kong Q, Wang M (2017) On a fractional boundary value problem with a perturbation term. Journal of Applied Analysis and Computation 7:57-66.

Graef JR, Kong L, Wang M (2014) A Chebyshev spectral method for solving Riemann-Liouville fractional boundary value problems. Appl Math Comput. 241:140–150.

Graef JR, Kong L, Wang M (2014) Stationary solution of a stochastic nosocomial epidemic model in hospital intensive care units. Stochastic Anal Appl. 32:840–850.

Dexter C. Whittinghill III

Associate Professor & Department Head
Mathematics

whittinghill@rowan.edu

Education:
BA (Mathematics), Middlebury College
MS (Mathematics), University of Wisconsin-Milwaukee
MS (Statistics), Purdue University
PhD (Statistics), Purdue University

Research Expertise:
Statistics Education | Design of Experiments

My current interests include co-author-consulting with Rowan faculty in other disciplines regarding statistical education.

Honors and Awards:
Inaugural Outstanding Contributed Paper Award in Statistics Education, SIGMAA in Statistics Education 2006

Member of:
American Statistical Association (ASA, www.amstat.org)
Institute of Mathematical Statistics (IMS, www.imstat.org)
Mathematical Association of America (MAA, www.maa.org)

Recent Publications:
Flynn, MA, Everett JW, Whittinghill D (2015) The impact of a living learning community on first-year engineering students. Eur J Eng Ed. 41:331-334.

Chen JC, Kadlowec JA, Whittinghill DC (2010) Classes that click: Fast, rich feedback to enhance student learning and satisfaction. J Eng Ed. 99:159-168.

Chen JC, Kadlowec JA, Whittinghill DC (2008) Using handheld computers for instantaneous feedback to enhance student learning and promote interaction. Int J Eng Ed. 24:616-624.

Marcus Wright

Assistant Professor
Mathematics

wright@rowan.edu

Education:
AB (Mathematics), Harvard University
PhD (Mathematics), Stanford University

Research Interests:
Complex Analytic Differential Geometry | Iteration of Rational Functions | Deformations of Complex Manifolds

My research interests are in the study of the function theory and analytic invariants of complex manifolds using intrinsic metrics and infinitesimal metrics, such as the Kobayashi metric, and Riemannian curvature, and how these characteristics of a manifold vary with deformation of complex structure.

I also am interested in the dynamics of iteration of rational functions, especially those related to numerical root finding methods, and the effects of deformation on such dynamical systems.

Recent Publications:

Osler T J, Wright M, Orchard M (2005) Theon's ladder for any root. International Journal of Mathematical Education in Science and Technology. 36, pp. 389-398

Simons CS, Wright M (2004) Zeroing the Baseball Indicator and Chirality of Integer Triples. Journal of Integer Sequences. 1-8.