Curriculum Vitae MIENIE DE KOCK

	PERSONAL INFORMATION
ADDRESS	1001 S. Leadership Pl. Killeen, TX, 76549 Room 217-N
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WEBPAGE	Colores of the state of the sta
CONTACT DETAILS	
	EDUCATION (1996 - 2008)
Ph.D in	Mathematics (Kent State University, Kent, OH, USA)
2008 DISSERTATION TOPIC	- On absolute continuity and the range of vector measures.
2008 COURSES COMPLETED	 Real Variables I: Metric Spaces, Differentiation and Integration. Real Variables II: Hilbert Spaces, Functional Analysis. Measure Theory: Integration theory, Martingales. Non-linear Analysis: Non-linear models. Math Statistics I: Sampling distributions, Loss functions. Math Statistics II: Hypothesis Tests, Non-parametric procedures. Probability Theory: Martingales, Expectation, Brownian motion. Wavelets and applications. Multivariate Statistics: Multiple regression, ANOVA
MA in M	lathematics (Kent State University, Kent, OH, USA)
2008 COURSES COMPLETED	-College Teaching Math -Topology -College Teaching -Non-linear Analysis -Complex Variables -Statistics and Probability -Functional Analysis -Real Analysis
MS Mathema	atics (North West University, Potchefstroom, South Africa)
2001	-Operators defined by conditional expectation
THESIS TOPIC 2001 COURSES COMPLETED	-Markov Chains and Monte Carlo Simulation -Computer Security -Visual Basic -Linear Algebra -Functional Analysis: Approximation theory -Abstract Algebra -Ordered Vector Spaces -Topology
BS in Accounti	ng (North West University, Potchefstroom, South Africa)
COURSES COMPLETED	 - Accounting I- Models, Multivariate Statistical Analysis - Micro Economics - Macro Economics - Business Economics - Computer Science: C++, Pascal, Delphi, Assembler - Calculus I, II, III, Differential Equations, Linear Algebra, Analysis - Management

	WORK EXPERIENCE	· · · · · · · · · · · · · · · · · · ·	
Institution:	Texas A&M University – Central		
	Texas		
Line of business:	Education/Administration		
	August 2008 – Present		
Title: Assistant Professor in Mathematics (August			
	2008- Present)		
Job description:	Teaching upper and graduate level		
	Mathematics and Statistics classes.		
Duties:	Design curriculum in Probability and teach a course to prepare students for the Probability (P1) exam.		
	2.Teach undergraduate classes to prepare students for the 4-8 and 8-12 Mathematics Content Certification exam to teach Mathematics at the Middle and High School		
	level. Prepare EC-6 students for the Mathematics portion of the certification		
	exam. 3. Serve as an advisor for students' Masters		
	thesis and serve on thesis committees.		
Outcomes:	One student passed the P1 actuary exam. In process of creating a statistics course which will be approved for professional credit with the national actuarial societies.		
	2. Both the 4-8 and 8-12 Math certification exams are content based. Results for 4-8:		
	2012: 2 students passed 2011: 2 students passed Results for 8-12:		
	2012: 5 students passed (Scores were as high as 295/300)		
	2011: 2 students passed		
Title:	Program Coordinator for Mathematics and		
	Physics Department		
Job Description:	Program Coordinator for the Mathematics and Physics Department. Building a new department and develop a masters program in Operations Research in cooperation with Ft. Hood army base.		
Duties:	Develop and improve rigor in the Mathematics and Physics department Hire and train new Assistant Professors and adjuncts in the Mathematics		
	Department. 3. Develop Curricula and establish a connection witH Ft. Hood (Army Operations Testing Command) in order to develop an MS in Math with a concentration in Operations		
	Research.		

Outcomes:	1. Upon arrival in the Math Department, the certification exam results for 8-12 and 4-8 Math certification exam were at a 60% pass rate. 2012-2013 the rate improved to 86% 2. Instrumental in hiring and training of 2 Tenure-track faculty member in Math Department 5 Adjunct faculty member 8 Graduate Teaching	
	Assistants	
	Responsible for training students/faculty members to use Mathematical software: Maple Geometer's Skectchpad Geogebra	
	Currently more than two students are enrolled in MS in Math program with concentration in Operation Research in collaboration with Operations Testing Command at Ft. Hood	

Classes taught:	Undergraduate:	Graduate:
	•Fall 2008:	
	Ordinary Differential Equations	Real Analysis
	Statistics and Probability	Dynamical Systems
	Math Concepts I	
	•Spring 2009:	Topics in Math: Number Theory
]	Principles of Statistics	Linear Algebra
	Numerical Analysis	Real Analysis II
	Number Theory	Statistics
	Math Concepts II	Selected Topics: Game Theory
	•Summer 2009	perceted topics. dame theory
	Math Concepts III	Statistical Reasoning and Probability
	•Fall 2009	Thesis (5 Students)
	Math Concepts I & III	
	Survey of Mathematics	Applied Linear Algebra
	Statistics and Probability	Probability and Statistic
	•Spring 2010	
	Math Concepts II & III	
	e Summer 2010	
	Math Concepts I & II & III	Math topics: Math and the iPhone
	•Fall 2010	Thesis (5 students)
	Math Concepts I	
	Advanced Analysis	Statistical Reasoning and Prob
	•Spring 2011	Thesis
	•Summer 2011	
	Math Concepts I & II & III	
	Algebraic Functions	
	•Fall 2011	
	Math Concepts I	
	Algebraic Functions	 Thesis
	Spring 2012	Topics in Secondary Math
	Math Concepts II & III	
	Algebraic Functions	
[•Summer 2012	
	Algebraic Functions	
	Math Concepts III	Topics in Math: iPhone app
	•Fall 2012	Topics in Math: History of Math
	Math Concepts I, III Algebraic Functions	Thesis
	Math topics in Probability	Math and Technology
	Spring 2013	
	Math Concepts I]
	Ordinary differential equations	

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Institution:	Texas Bio-Science Institute	2	
Line of business:	Research/Education		
Period of Service:	May 2009 – August 2009		
	May 2010 - August 2010		
	May 2011- August 2011		
	May 2012 August 2012		
	May 2012 – August 2012		
Job Description:	Project Manager for Mobile Application		
	development.		
Job Objective /	Manage a project to develop a mobile		
Purpose	application (Historic Mathematicians) supported by National Science Foundation.		
Statement:	Managed the complete project including		
	development, graphic design, submission etc.		
Duties:	Project Management: Train students to program in X-code.		
	Coordinate final completion of "Historic		
	Mathemticians" I-phone Application		
	Submit application to Apple Guide students to code same project in		
	Java for Android.		
	Guest speaker at Bio-Science Institute:		
	• Annual talks at the Bio-Science Institute on		
	Mathematics and I-phone App development.		
	Talks for recruiting students to Texas A&M		
	University-Central Texas.		
Major Projects	•I-phone application on Historic		
Completed:	Mathematicians available for download from		
	the Apple store.		
	•Support students on Summer stipend from NSF-STEP grant:		
	2010: 3 students x \$2,500		
	2011: 3 students x \$2,500 2012: 3 students x \$2,500		
	2013: 4 students x \$2,500		

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Institution:	Jarvis Christian Coll	ege, Hawkins, TX		
Line of business:	Education/Administratio			
Period of Service:	August 2007 – July 2008			
Job description:	Program Coordinator Department	for Mathematics		
Duties:	Responsible for building department.	the Mathematics		
Job description:	Associate Professor in N	lathematics.		
Duties:	Prepare students for exams (EC-6 and 4-8).			
Classes taught:	Ordinary Differential Equations Math Topics: Preparation for Math certification exam Calculus I An Introduction to Statistics Linear Algebra Math Topics: Methods of teaching Math with games			
	PUBLICATIONS			
2001		Masters thesis,	De Kock	
	conditional expectation.	1		
2003	Characterization of conditional expectation in terms of positive projections.	American Mathematical Society - Contemporary Math 328	De Kock Grobler	
2005	Absolute continuity of vector measures and operators	Quaest. Math. 28, 4, 479-485	Choi, De Kock	
2008	Absolute continuity and on the range of a vector measure		De Kock	

2009	On the range of a vector Jour	rnal of Operator De Kock	
2003			
	j j	eory and Puglisi Ivanced	
		lications, 201,	
	285-		
	PATENTS	AND PRODUCTS	
2012	Mathematicians A v a	ailable for De Kock	
	through history iPhone dow	vnload from	
	application iPho	one store	
	Grants	and Funding	
2006	International Travel grant	\$2,500	Kent State University
	funding		
2008	Mini-Seed Grant	\$3,000	Tarleton State
			University
2009	NSF-STEP Grant/Summer	\$6,000	Texas Bio-Science
	Research experience		Institute
2010	NSF-STEP Grant/Summer	\$6,000	Texas Bio-Science
	Research experience		Institute
2011	NSF-STEP Grant/Summer	\$8,500	Texas Bio-Science
	Research experience		Institute
	Faculty development Funding		Texas A&M
	i dedity development anding	\$2,500	University-Central
			Texas
2012	NSF-STEP Grant/Summer	\$8,500	Texas Bio-Science
	Research experience		Institute
2013	NSF-STEP Grant/Summer	\$11,000	Texas Bio-Science
	Research experience		Institute
2013	CSE Solar Energy Public-Private		Texas A&M University
	Research Project (Co-PI)	:	- Central Texas
		Awards	
2002	African Community Association	\$1,000	Kent State University
	Scholarship		
2003	National Collegiate		US Achievement
	Mathematics Award		Academy, Kentucky
2004	Finalist in distinguished		Kent State University
	teacher award.		
2006	University Fellowship	\$9,000	Kent State University
2013	Finalist for distinguished		Texas A&M University
	graduate faculty award:		– Central Texas
	Teaching.		
2013	Finalist for distinguished		Texas A&M University
	graduate faculty award:		– Central Texas
	Scholarship.	1	<u></u>
		ns at Conferences	1
2012	International conference on	Phone application on historic	University of South
	Mathematics, Science and	mathematicians and virtual	Africa, Kruger
	Technology	manipulatives.	National Park.
2007	18th International Workshop	On the range of a vector	North-West
	on Operator Theory and its	measure.	University,
	Applications		Potchefstroom, South
		1	Africa

2006	Fifth conference on Function Spaces	Vector meas	ures	Southern Illinois University - Edwardsville	
2002	Fourth conference on Function Spaces	n Conditional defined by o	•	Southern Illinois University - Edwardsville	
2001	National Conference of the South African Mathematical Society	Conditional	expectation.	University of Durban, South Africa	
	Conferences/	Workshops at	ttended:		
2012	Chancellor's Education Su		Austin, TX		
2011	Chancellor's Education Su	mmit	Austin, TX	· <u></u> _	
2011	Avid Summer Institute		Dallas, TX		
2010	Chancellor's Education Su	mmit	Austin, TX		
2009	Chancellor's Education Su		Austin, TX		
2006	Informal Analysis Seminar		Kent State Univ	ersity OH	
2006	Second meeting on Vecto Integration				
2006	MAA Ohio sectional meet	ing	New Concord, (OH	
2005	Teaching conference of th teaching council	e university	Kent State Univ	ersity, OH	
2004	American Mathematical S Conference	ectional	University of Pit	ttsburgh, PA	
2003	Third International Confer Abstract Analysis	rence on	1	fathematical Society, ruger National Park,	
		Skills	pout		
MS Word. Off	fice, Powerpoint, Excel	Intermedi	ate		
Pages, Keynot		Intermedi	ate		
X-code, Dash		Intermedi			
SPSS, Minitab		Intermedi	Intermediate		
Geogebra, Geometer's Sketchpad			Advanced		
Maple		Advanced		 -	
	Organ	nized Activitie			
2013	Math Appreciation Day		r. Ed Burger - Nat	ionally awarded	
	with Central Texas Colle	- I			
2042	NATURAL TO THE		tical Games Tourn		
2012	Science Institute				
2011	Geometric Bubble Day a Texas Bio-Science Institu	1	<u>-</u>	and use of zometools as math.	
2010	Mathematical Games Tournament at Texas Bi Science Institute	o- games	Students can win prizes by playing mathematical games		
2010	Finalist judge at Central Texas Science Fair	Judge stud	dent science proje	ects.	

2009		Presentation on Geometry and use of zometools as manipulatives in explaining math.
2009	Judge at Central Texas Science Fair	Judge science projects.
2007	Mathematics contents requirements (by Texas College Readiness Standards).	Jarvis Christian College, Hawkins, TX
2006	Organized Informal Analysis Seminar	Kent State University