

# R. Patrick Vernon

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## EDUCATION

**Tulane University** New Orleans, LA *2002 - Present*  
*Projected to Receive Ph.D. (Spring 2007)*  
*Received M.S. in Mathematics (Spring 2006)*

**Tennessee Technological University** Cookeville, TN *1998-2002*  
*Received B.S. in Mathematics with Minor in Computer Science (Spring 2002)*

## RESEARCH INTERESTS

Continuum Theory and Topology in the Complex Plane;  
Algebraic Topology, Complex Dynamics, and applications of Topology

## COURSES TAUGHT

**Calculus II** (2006)

**Long Calculus I** (*an introductory course to college-level Calculus*) (2005)

**Intro to Probability and Statistics** (2004)

## LABS TAUGHT

*Intro to Probability and Statistics, Calculus I-III, Consolidated Calculus,*  
*Intro to Applied Mathematics, Discrete Mathematics, Linear Algebra*

## COURSES TUTORED

*Trigonometry/Pre-Calculus, College Algebra, Intro to Probability and Statistics,*  
*Calculus I-III, Intro to Applied Mathematics, Linear Algebra*

## GRADUATE COURSES TAKEN

<b>Topology -</b>	<i>Point Set Topology</i>	<i>Algebraic Topology</i>
	<i>Differential Geometry</i>	<i>Complex Manifolds</i>
	<i>Complex Dynamics / Complex Topology</i>	<i>Special Topics in Topology (independent study)</i>
	<i>Continuum Theory (independent study)</i>	<i>Knot Theory / 3-Manifolds</i>
	<i>Bucket Handles (seminar)</i>	

<b>Algebra -</b>	<i>Algebra I</i>	<i>Algebra II</i>
	<i>Homological Algebra</i>	<i>Algebraic Geometry (independent study)</i>
	<i>Set Theory</i>	<i>Rings and Modules</i>
	<i>Duality of Abelian Groups (seminar)</i>	

<b>Analysis -</b>	<i>Real Analysis</i>	<i>Functional Analysis</i>
	<i>Number Theory</i>	

## AWARDS RECEIVED

**Outstanding Performance on Oral Examinations** (2006)

**Award for Excellence in Teaching** (2005)

**Award for Excellence in Teaching** (2004)

**Tulane Teaching Assistanship** (2002-2006)

**Tulane Fellowship** (2002-2006)

**Tulane Tuition Scholarship** (2002-2006)

**TTU Honors Scholarship** (1998-2002)

**TTU Education Department Scholarship** (1999-2000)

**TTU Engineering Scholarship** (1998-1999)

## SKILLS

**Computer Languages:** *L<sup>A</sup>T<sub>E</sub>X*, *HTML*, *CSS*, *PHP*, *MySQL*, *C++*, *ActionScript*, *COBOL*

**Programs:** *MATLAB*, *Mathematica*, *Ipe* (a drawing editor used to create *.eps* files), *Flash*, *Photoshop*, *Word*, *Excel*, *OpenOffice.org Package*

## MISCELLANEOUS

**Speaker at 2007 AMS Joint Conference** (2007)

**Representative of Tulane Math Sent to TTU to Recruit Prospective Students** (2006)

**Presented Dissertation Results at Topology Seminar** (2006)

**Attended Spring Topology & Dynamical Systems Conference** (2006)

**Presented Selected Topics at Weekly Topology Seminars** (2005)