Curriculum Vitae

Dr. Philip R. Brown
brownp@tamug.edu

Degrees

Ph.D. Mathematics   1993 - 2000
Texas A&M University, College Station, Texas
Dissertation: Extremum problems relating to Bloch's and
Landau's constants. **Advisor:** Professor Harold P. Boas

M.S. Mathematics
University of the Witwatersrand, Johannesburg, South Africa   1992 - 1993
Dissertation: Wavelet Analysis

B.S. Mathematics, Physics   1988 - 1991
University of the Witwatersrand

Employment history and teaching experience

- **Teaching Assistant, Texas A&M University**   1993 - 1997
  Conducted recitation for calculus, advanced calculus, analysis
  Instructed calculus laboratory (using MAPLE software)
- **Lecturer, Texas A&M University at Galveston**   2000 - 2001
  Lectured pre-calculus, algebra, calculus, finite mathematics
- **Assistant Professor, Texas A&M University at Galveston**   2001 - 2007
  Lectured finite mathematics, calculus, spherical trigonometry
- **Associate Professor, Texas A&M University at Galveston**   2007 - present
  Lecturing calculus, spherical trigonometry
- **Visiting Senior Lecturer**, University of Pretoria, South Africa   2009
  Lectured calculus and tutorials for introductory numerical analysis

Research interests

- Complex Analysis, conformal mapping, quasi-conformal mapping
- Geometric Function Theory
- Special Functions

Research publications

- Bloch constants of order N, *Quaestiones Mathematicae* **24** (2001), 247-259
- Mapping of Circular Arc Polygons, *Complex Variables,* **50.2** (2005),131-154
- Constructing mappings onto radial slit domains, *Rocky Mountain J. math,*
  no.**6** (2007), 1791-1812
- An investigation of a two parameter problem for conformal maps onto
  circular arc quadrilaterals, *Complex Variables and Elliptic Equations* **53** no.1
  (2008), 23-51
- Conformal mapping of a gear domain with one tooth, *Quaestiones Mathematicae*
  33 (2010), 277-289
- The scalar Nevanlinna-Pick interpolation problem with boundary conditions
  (with L. Luxemburg), *Journal of Computational and Applied Mathematics* **235** (2011),
  2615-2625.
- Conformal Mapping of Circular Quadrilaterals and Weierstrass Elliptic Functions
  (with M. Porter), accepted for publication, *Computational Methods and Function
  Theory.* (2011)

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