NOTRE DAME UNIVERSITY
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Biography

I joined the Mathematics department at Notre Dame University in Oct. 1995 as an assistant professor, and chaired the department from 2008 till 2010. I received my Ph.D. in mathematics from Imperial College London in 1994, under the supervision of Prof. I.N.Baker, with a thesis in complex function theory. I'm married with two children, a boy and a girl. After a number of publications in complex function theory, my research interests switched to Category Theory. I am currently finishing a research monograph entitled "Modular Categorical Logic", that I started working on in 2013, and in which I generalize certain aspects in Topos Theory by introducing a new concept of "truthness" that is modulo a whole distinguished subset of the available truth-values, leading to noncommutative logical structures and theories. I'm a member of the London Mathematical Society (LMS) since 1997, and also a member of the European Mathematical Society (EMS).

Peer-reviewed Journals

Local

- "On a Certain Fractal Subset of the Complex Plane". Appeared in "Palma" (Journal of NDU) Vol 4, No 7, pp. 105 – 120 (1997).

Refereed Journals

- "Meromorphic Functions Compatible with Homomorphisms of Actions on C", Communications in Mathematical Analysis, Volume 13, Number 2, pp. 116 – 130 (2012)
- "On Limit Functions and Their Natural Boundaries in Infinite Compositions of Entire Functions", Complex Variables and Elliptic Equations, Volume 52, No 9 (2007)
- "On the Asymptotic Convergence of Sequences of Analytic Functions". Archiv Der Mathematik, Vol 89, pp. 442 – 451 (2007)
- "Julia Sets and Non-Constant Limits in the Composition of Entire Functions". Complex Variables Theory and Applications, Vol 30, pp. 97 - 112 (1996).
- "Julia Sets of Inner Compositions". Archiv Der Mathematik, Vol 67, pp. 138 - 141 (1996).
- "Convergence of a Modified Iteration Process". With I. N. Baker. "Series in Approximations & Decompositions ",Vol. 5, pp. 49 – 55, World Scientific (1995).