

# Bao Qin Li

Ph.D. in Mathematics, University of Maryland at College Park  
Professor, Department of Mathematics and Statistics, Florida International University

Primary research area: Several Complex Variables

Other research interests: Related problems in Harmonic Analysis, Partial Differential Equations, and Number Theory.

## Publications

- **Selected publications since 2010:**

[1] Hu, P.; Li, B.Q., A connection between uniqueness of the Riemann zeta function and the Riemann hypothesis and beyond, to appear.

[2] Li, B.Q.; Yang, L.; Estimates on partial derivatives and logarithmic partial derivatives of holomorphic functions on polydiscs and beyond, *J. Geometric Analysis* 31(2021), 7333-7351.

[3] Li, B.Q.: On the number of zeros and poles of Dirichlet series, *Transactions of the American Mathematical Society* 370(2018), 3865-3883.

[4] Li, B.Q.; Ye, Z.: Algebraic differential equations with functional coefficients concerning  $\zeta$  and  $\Gamma$ , *J. Differential Equations*, 260(2016), 1456–1464.

[5] Li, B.Q.: On meromorphic solutions of generalized Fermat equations, *International Journal of Mathematics* 25(2014), No.1, 1450002.

[6] Ki, H.; Li, B.Q.: On uniqueness in the extended Selberg class of Dirichlet series, *Proceedings of the American Mathematical Society* 141 (2013), 4169–4173.

[7] Li, B.Q.: On common zeros of L-functions, *Mathematische Zeitschrift* 272 (2012), 1097–1102.

[8] Li, B.Q.: A logarithmic derivative lemma in several complex variables and its applications, *Transactions of the American Mathematical Society* 363 (2011), 6257–6267.

[9] Li, B.Q.: A uniqueness theorem for Dirichlet series satisfying a Riemann type functional equation, *Advances in Math.* 226 (2011), 4198–4211.

[10] Li, B.Q.; Ye, Z.: Algebraic differential equations concerning the Riemann zeta function and the Euler gamma function, *Indiana Univ. Math. J.* 59 (2010), 1405–1415.

• **Other selected publications:**

[1] Li, B.Q., On meromorphic solutions of  $f^2+g^2=1$ , *Mathematische Zeitschrift* 258(2008), 763-771.

[2] Li, B.Q., Discrete interpolating varieties in pseudoconvex open sets of  $C^n$ , *Journal of the Mathematical Society of Japan* 58(2006), 1185-1196.

[3] Li, B.Q., Entire solutions of certain partial differential equations and factorization of partial derivatives, *Transactions of the American Mathematical Society* 357 (2005), 3169-3177.

[4] Li, B.Q., Interpolating varieties for entire functions of minimal type, *Advances in Mathematics* 194 (2005), 87-104.

[5] Li, B.Q., On entire solutions of Fermat type partial differential equations, *International Journal of Mathematics* 15 (2004), 473-485.

[6] Li, B.Q., On the Bezout problem and area of interpolating varieties in  $C^n$ , II, *American Journal of Mathematics* 120(1998), 1191-1198.

[7] Li, B.Q., Uniqueness of entire functions sharing four small functions, *American Journal of Mathematics* 119 (1997), 841-858.

[8] Li, B.Q. and Taylor, B.A., On the Bezout problem and area of interpolating varieties in  $C^n$ , *American Journal of Mathematics* 118(1996), 989-1010.

[9] Berenstein, C.A., Chang, D.C. and Li, B.Q., Shared values for meromorphic functions, *Advances in Mathematics* 115(1995), 201-220.

[10] Berenstein, C.A. and Li, B.Q., Interpolating varieties for spaces of meromorphic functions, *Journal of Geometric Analysis* 5(1995), 1- 48.

• A list of over 80 publications can be found in MathSciNet of the American Mathematical Society.

## **Selected Professional Activities and Services**

• Reviewer for Mathematical Reviews of the American Mathematical Society.

- Served on a National Science Foundation Panel.
- Editor, *International Journal of Mathematics and Mathematical Science*;  
*European Journal of Mathematical Analysis*.  
Former editor for several other journals.
- Chairman of the Department of Math & Stat, FIU, 2009-2013.
- Refereed research papers and books for over 30 mathematical research journals and publishers, including Cambridge University Press, Kluwer Academic Publishers, Springer-Verlag, the Proceedings of the American Mathematical Society, the Transactions of the American Mathematical Society, Advances in Mathematics, etc..
- Gave numerous invited talks at international and national conferences, and university seminars and colloquia in Canada, China, Germany, Japan, USA, etc..
- Co-organizer of the Special Session on "Recent Advances in Complex and Harmonic Analysis" in the 106th Annual Meeting of the American Mathematical Society, Washington, D.C., January 19-22, 2000.

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