

# Daniel Brice

## Lecturer of Mathematics

danielbrice@gmail.com

(818) 600-2256

California State University, Bakersfield

March 14, 2016

Department of Mathematics  
c/o Dr. Charles Lam, Chair, Search Committee  
School of Natural Sciences, Mathematics, and Engineering  
California State University, Bakersfield

To the members of the Mathematics Search Committee:

I am contacting you today on the recommendation of Dr. Sophia Raczkowski to apply for the tenure-track position advertised on MathJob.Org. I earned my PhD from Auburn University in June 2014 under the direction of Huajun Huang, authoring my dissertation titled "On the derivation algebras of reductive Lie algebras with applications to zero product determined algebras." Since completing my doctorate, I spent one year as an Assistant Professor at the historic Tuskegee University and later accepted a Lecturer position at CSU Bakersfield in order to relocate for family reasons.

Since completing my doctorate, my publications have appeared in *Linear and Multilinear Algebra* and the *Alabama Journal of Mathematics*, both representative of research independent of my dissertation research. While at CSU Bakersfield, I codified my dissertation research into two papers, one of which has been submitted and one of which is still being refined. My research has been in structure theory of Lie algebras and in zero product determined algebras, and it interfaces strongly with applied disciplines such as Linear algebra, tensor decomposition, and operator theory. I'm interested in the prospect of expanding the scope of my research, and I'm excited about the idea of working in an interdisciplinary team at CSUB. I am currently meeting regularly with Chris Mike to discuss Lie groups, and several other students have approached me to inquire about student research. I look forward to continuing to work with Chris and with working with my other students.

I can code in Haskell, Java, Javascript, and Python, and I am familiar with the principles of both object-oriented programming and functional programming. I would be happy to leverage this expertise by teaching computation-heavy Mathematics courses such as Numerical Analysis and Data Science, or towards developing a numerical/computational approach to the Calculus sequence.

Finally, my teaching record is impeccable. Please see my department review, my SOCIs, and my RateMyProfessors.com reviews (low Easiness, high Clarity, high Helpfulness) for verification of this claim. I am able to teach any undergraduate course with only a minimum of direction from the coordinator, and I am interested in supervising student assistants and peer tutors as the need arises.

Respectfully,

Daniel Brice  
danielbrice@gmail.com