

Iftikhar A. Burhanuddin
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Los Angeles, CA 90089-0781

November 19, 2006

Dear Hiring Committee:

I wish to apply for a tenure-track or post-doctoral position in Mathematics. My AMS cover sheet, curriculum vitae, research and teaching statements are attached and I have requested my references — Ming-Deh Huang (co-advisor), David Kempe (teaching reference), Sheldon Kamienny, Wayne Raskind and William Stein (co-advisor) — to send out letters supporting my application.

I am currently a doctoral candidate at the University of Southern California. My research interests are in **number theory, algorithms, computation** and **cryptology**. My thesis is related to viewing the *Birch and Swinnerton-Dyer conjecture for elliptic curves over the rational numbers* from a computational perspective. I have devised algorithms and implemented them, studied the hardness of number-theoretic problems and have done extensive computation to study certain interesting arithmetic phenomena. In my research statement you will find problems I have worked on as part of my thesis and ones I am currently working on with collaborators.

Please find my teaching statement enclosed. I have over six years of experience as a teaching assistant for undergraduate and graduate classes in Computer Science and Mathematics.

I look forward to pursuing an academic career both as a researcher and an educator. If you have any further questions, I can be reached either via e-mail at burhanud@usc.edu or telephone at 323-620-8661. Thank you for your time and consideration. I look forward to hearing from you.

Sincerely,

Iftikhar A. Burhanuddin