

August 2, 2019

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Dear Committee Members,

I am writing to apply for the L.E. Dickson Instructorship. I am a graduate student at Stanford University and my advisor is Professor Gunnar Carlsson. I expect to receive my PhD in June 2013.

I am interested in applied and computational topology, and in particular, applications to sensor networks and to data analysis. My dissertation research is on evasion paths in mobile sensor networks. This problem is relevant for real-world sensor networks, and it also motivates a more theoretical question that I study via the J. F. Adams spectral sequence. I am applying in part because I am interested in Shmuel Weinberger's work in applied topology.

I am a committed teacher. I have experience as a teaching assistant and have served as a teaching assistant mentor for my department and for Stanford's Center for Teaching and Learning. This summer I was the Math Instructor for the Stanford Summer Engineering Academy, whose goal is to attract a diverse student body to science and engineering majors.

I would be happy to answer further questions or send additional materials, and my website is: <http://www.stanford.edu/~henrya/>.

Thank you for your consideration.

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Sincerely,

Henry Adams