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Dear Recruiter at Disney Research,

My name is Bernat Guillen. I am a 3rd year Ph.D. student at the Program in Applied and Computational Mathematics in Princeton University. I am interested in applying to a position at Disney Research as an intern for Summer 2017. The philosophy of bridging together academia and industry that seems so particular to Disney Research is exactly what I would like not only for an internship but for my career. The fact that the research done at Disney Research is so cutting-edge and used for immediately improving people's experiences and lives is basically everything I want from my own research. I think that my own vision and Disney Research's vision are perfectly aligned.

My research is in Data Analytics. For the past few years I have been developing and implementing algorithms for smooth reconstruction of shapes and Topological Analysis of different systems ranging from Discrete Morse Theory to Persistent Homology, applied to Materials Science, Behavioral Game Theory, or Human Microbiome. However, given my background as an engineer I also like participating in the development of products that can be patented and utilized in the real world. I think my skills could be very valuable to many projects being conducted right now at Disney Research, and I would like very much to be a member of those projects.

I am especially interested in the work done in the Machine Learning & Optimization group (Facial Motion Retargeting), Computer Graphics, Video Processing, and Computer Vision. I am also very interested in the field of Human-Computer Interaction, although maybe my prior knowledge is more limited in that area. I am always eager to learn new things however, and I would be delighted to join a group working in HCI. Due to visa requirements for my wife and myself (Fulbright Scholarship), it would be difficult for me to leave the US.

I appreciate very much your consideration and I am looking forward to hearing from you.

Sincerely,

Bernat Guillen

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