

Probabilistic modeling and uncertainty quantification of the Atenquique debris flow, 1955, México

Andrea Bevilacqua^{1,2}, Abani Patra^{3,1}, Marcus Bursik², E. Bruce Pitman⁴, Ali Akhavan-Safaei³, David Hyman², Jose Luis Macías⁵, Byron R. Rupp², and Ricardo Saucedo⁶

¹*Comp. Data Science and Eng., University at Buffalo, Buffalo, NY*

²*Dept. of Earth Sciences, University at Buffalo, Buffalo, NY*

³*Dept. of Mech. and Aero. Eng., University at Buffalo, Buffalo, NY*

⁴*Dept. of Materials Design and Innovation, University at Buffalo, Buffalo, NY*

⁵*Dept. de Vulcanología, Inst. de Geofísica, Universidad Nacional Autónoma de México, Mexico City, MX*

⁶*Inst. de Geología/Fac. Ingeniería UASLP, San Luis Potosí, MX*

{abevilac}@buffalo.edu

Abstract

1 Introduction

Acknowledgements

We would like to acknowledge the support of NSF awards 1521855, 1621853, and 1339765.