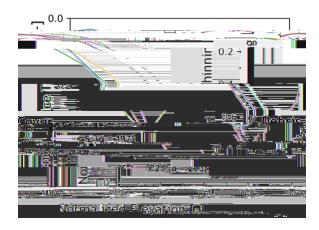
## Parameterizing Glacier Thinning and Retreat: A Case Study in High Mountain Asia Pacifica (Kitrea) L. M. Takata-Glushkoff, Class of 2019

As climate change generally increases world-wide glacial melt, it becomes increasingly important to capture the details of glacier dynamics to effectively understand and predict glacier changes. Increased glacial melt can change downstream water regimes, pose local avalanche and flood hazards, and contribute to global sea level rise. In order to mitigate or proactively adapt to these impacts, we must refine our understanding of glacier processes, and thereby incorporate that knowledge into glacier evolution models.

Large-scale glacier evolution models require computationally inexpensive methods of capturing





## References

Huss, M., Jouvet, G., Farinotti, D., and Bauder, A. (2010). Future high-mountain hydrology: a new parameterization of glacier retreat. Hydrol. Earth Syst. Sci. 14, 815–829.