

# Stanford

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## Sabrina Ip

- Ph.D. Student in Civil and Environmental Engineering, admitted Autumn 2019
- Club Sports Office Assistant, Recreation Competitive Sports

### Publications

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#### PUBLICATIONS

- **Modeling heterogeneity and permeability evolution in a compaction band using a phase-field approach** *JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS*  
Ip, S. Y., Borja, R. I.  
2023; 181
- **Multiscale interactions of elastic anisotropy in unsaturated clayey rocks using a homogenization model** *ACTA GEOTECHNICA*  
Ip, S. Y., Borja, R. I.  
2023
- **A phase-field approach for compaction band formation due to grain crushing** *INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS*  
Ip, S. Y., Borja, R.  
2022
- **Evolution of anisotropy with saturation and its implications for the elastoplastic responses of clay rocks** *INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS*  
Ip, S. Y., Borja, R. I.  
2021
- **Impacts of saturation-dependent anisotropy on the shrinkage behavior of clay rocks** *ACTA GEOTECHNICA*  
Ip, S. Y., Choo, J., Borja, R. I.  
2021