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Topographic influences on vegetation patterns in semi-arid regions PUNIT GANDHI, Mathematical Biosciences Institute, Ohio State University, KARNA GOWDA, Northwestern University, SARAH IAMS, Harvard University, LUCIEN WERNER, None, MARY SILBER, University of Chicago — Regular spatial patterns in vegetation growth appear at a community scale in semi-arid ecosystems across the globe. Such patterns have been attributed to various kinds of positive feedback between the individual plants and water availability. Incorporating topographic information into modeling efforts has the potential to improve our understanding of the role that water transport plays in the formation and dynamics of the vegetation patterns.

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