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## **Research Interests**

- Moduli spaces of bundles on algebraic varieties
- Higgs bundles, spectral curves and integrable systems

## **Brief Summary of Research**

Rohith has been trying to understand properties of integrable systems known as Parahoric Hitchin systems.

## **Recent Publications**

- Varma, R., 2015. On Higgs bundles on Elliptic Surfaces. *The Quarterly Journal of Mathematics*, 66(3), pp.991-1008.
- Baraglia, D., Kamgarpour, M. and Varma, R., Complete Integrability of the Parahoric Hitchin System. *International Mathematics Research Notices*