



CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, appearing to read 'Andrew A. West'.

Andrew A. West

Assistant Professor, Department of Astronomy
Boston University

This is to certify that

Amr Magdy Abdelhamid Sharaf

successfully completed and received a passing grade in

**ASTR105x: Alien Worlds: The Science of Exoplanet
Discovery and Characterization**

a course of study offered by BUx, an online learning
initiative of Boston University through edX.

VERIFIED CERTIFICATE
Issued January 9th, 2015

Verify the authenticity of this certificate at
<https://verify.edx.org/cert/2f1f5de46aaf4a3999f970e985e7a145>