The keys to good photography, whether scientific or personal, are embedded in the understanding and control of all its aspects. Photography may seem as simple as holding up a single lens in front of a piece of film. However, nuances like lighting, ISO, shutter speed, and f-stop have ruined many photos. Learn how to control your camera, why Hubble needed an upgrade, why the LSST has an f-stop of f/1.2, and take away a few tips on taking a better vacation photos.