## CUNY Newswire



# LI GE'S RESEARCH ON WORLD'S SMALLEST GYROSCOPE APPEARS IN OPTICA

April 1, 2015 | CUNY Graduate Center



Assistant Professor **Li Ge** (GC/Staten Island, Physics) has published a study in *Optica* that describes his development of what may help create the world's smallest gyroscope.

Ge, working with research partners at Yale University, reduced an essential component of gyroscope technology to a fraction of a millimeter: a pair of light waves traveling in opposite directions around a microscopic cavity.

Gyroscopes are used by space probes, satellites and other navigation technologies to provide stability and maintain a reference direction.

"We have found a new detection scheme that may lead to the world's smallest gyroscope," Ge told The Optical Society, which publishes *Optica* as its flagship peer-reviewed journal. "Though these so-called optical gyroscopes are not new, our approach is remarkable both in its super-small size and potential sensitivity."

This new approach eliminates the fundamental issue that prevented the miniaturization of optical gyroscopes in the past.

Read the study.
Read the Phys.org coverage.