What kind of Mathematician was she?

Olga, as we know faced some difficulty because she was a female mathematician, but she overcame these difficulties by proving herself in her particular field.

Olga's main focus in mathematics was the field of Number Theory. She was introduced to the study of Matrix Theory and her interests began to change. She worked with matrix theory after she took at job at the National Physical Laboratory in London. She worked here with a group investigating flutter, an aerodynamic phenomenon.

She began to study the Gerschgorin Circle Theorem and used this to help her locate eigenvalues of a matrix. She helped to popularize this theorem and strengthen the method by starting off the mathematical study of its fine points. "Matrix theory became more than just a part of a scientists toolkit and earned a place as an important field of research" (Math Trek, 2).