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### Automating the detection of strong gravitational lenses in large-scale surveys using deep learning

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**AUTOMATING THE DETECTION OF STRONG  
GRAVITATIONAL LENSES IN LARGE-SCALE  
SURVEYS USING DEEP LEARNING**





rijksuniversiteit  
 groningen

# Automating the detection of strong gravitational lenses in large-scale surveys using deep learning

## Proefschrift

ter verkrijging van de graad van doctor aan de  
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*Brahma Satyam, Jagat Mithya*

-Acharya Shankara (9<sup>th</sup> Century CE)  
Principle of non-duality, Advaita Vedanta

*To the **mind** that is still, the whole Universe surrenders*

Lao Tzu

