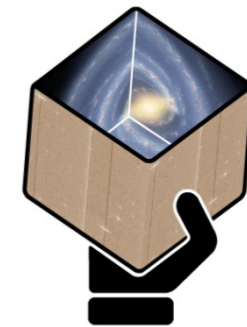


# GENIUS Final Report UNIGE

*N. Mowlavi, L. Eyer*  
*Université de Genève*



**gaia**



# WP 560: Transversal tools for special objects

→ WP 561: Variability and time series and variability

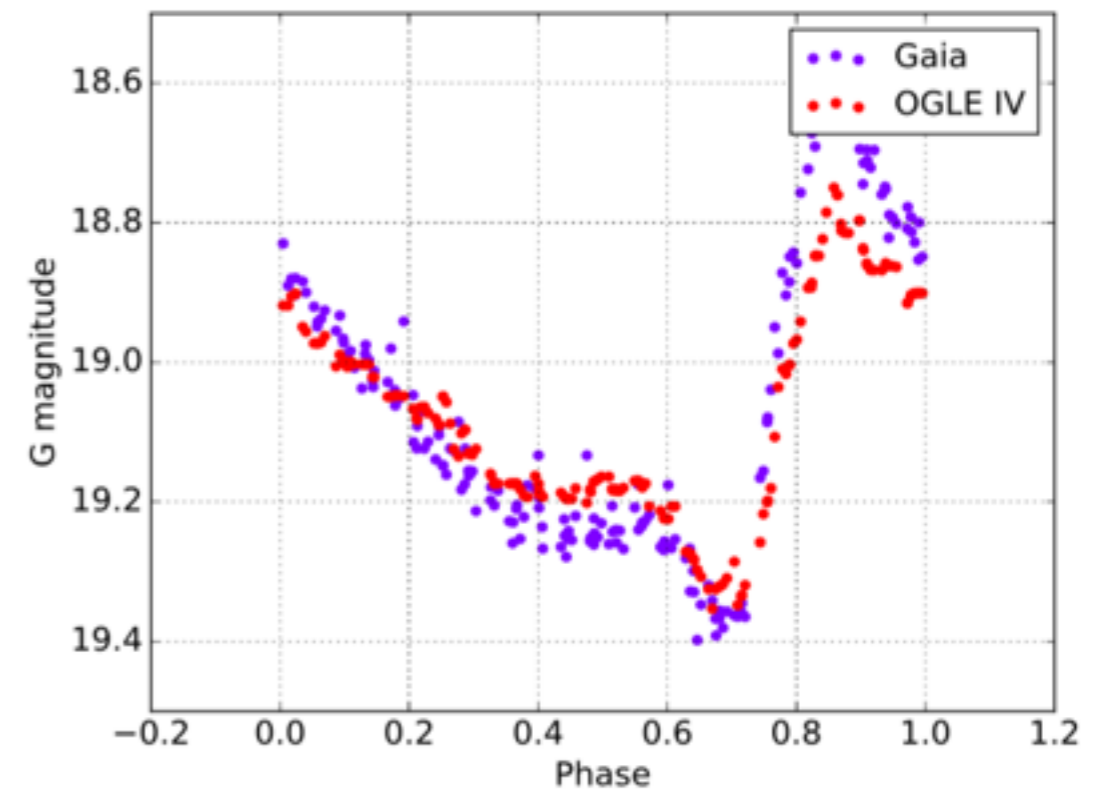
- Sergi Blanco Cuaresma

- Employed 01/12/2014 - 30/04/2015 under GENIUS contract

- Has continued work for the validation under Swiss funding till 15/05/2017

# Variability and time series and variability

- Checked absence of significant statistical biases in Gaia catalogue due to variability
  - variability → cross match problems → wrong physical parameters
  - potential instrument/data processing issues → false variability
- Check DR1 results on Cepheids (599) & RR Lyrae stars (2595)
  - Sect. 7.5 of Arenou et al. 2017, A&A in press (GRD1 - Catalogue Validation)



**Fig. 45.** Example of a folded light curve corresponding to a Gaia RR Lyrae star compared to a magnitude-converted and interpolated OGLE counterpart. The interpolation process hides the real dispersion present in OGLE, which is generally greater than in Gaia. (From Arenou et al. 2017)

# GENIUS - UNIGE

<i>Total PM (Person-Months)</i>	<i>5.0</i>
Personnel costs	44'645.33
Other direct costs	475.66
Indirect costs (overheads)	27'072.59
<b>Total Costs</b>	<b>72'193.58</b>
<b>Requested EC Contrib.</b>	<b>54'145.19</b>

## Budget

<i>PM (Person-Months)</i>	<i>6.5</i>
Personnel costs	41'000.00
Other direct costs	667.00
Indirect costs (overheads)	25'000.20
<b>Costs(Budget)</b>	<b>66'667.20</b>
<b>EC Contribution (Budget)</b>	<b>50'000.40</b>