

Oświadczenia współautorów

Oświadczenia współautorów złożyli:

**Praca P1: Smiljanic, R.** (2012), *Monthly Notices of the Royal Astronomical Society*, 442, 1562, *On the sodium overabundance of red giants in open clusters: The Hyades case.*

Praca jednoautorska.

**Praca P2: Smiljanic, R.**, Korn, A., Bergemann, M., Frasca, A., Magrini, L., Masseron, T. i in. (2014), *Astronomy & Astrophysics*, 570, A122, *Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars.*

4 współautorów: dr Andreas Korn, dr Maria Bergemann, dr Antonio Frasca i dr Laura Magrini

**Praca P3: Dutra Ferreira, L.**, Pasquini, L., **Smiljanic, R.**, Porto de Mello, G. F., Steffen, M. (2016), *Astronomy & Astrophysics*, 585, A75, *Consistent metallicity scale for cool dwarfs and giants: A benchmark test using the Hyades.*

4 współautorów: dr Letícia Dutra Ferreira, dr Luca Pasquini, dr Gustavo Porto de Mello i dr Matthias Steffen

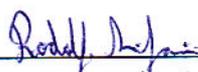
**Praca P4: Smiljanic, R.**, Romano, D., Bragaglia, A., Donati, P., Magrini, L., Friel, E. i in. (2016), *Astronomy & Astrophysics*, 589, A115, *The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Implications for stellar and Galactic chemical evolution.*

4 współautorów: dr Donatella Romano, dr Angela Bragaglia, dr Paolo Donati i dr Laura Magrini

**Praca P5: Smiljanic, R.**, Franciosini, E., Randich, S., Magrini, L., Bragaglia, A., Pasquini, L., Vallenari, A. i in. (2016), *Astronomy & Astrophysics*, 591, A62, *The Gaia-ESO Survey: Inhibited extra mixing in two giants of the open cluster Trumpler 20?*

4 współautorów: dr Elena Franciosini, dr Sofia Randich, dr Laura Magrini i dr Angela Bragaglia

Warszawa, 20 października 2017



(podpis)



# UPPSALA UNIVERSITY

Department of Physics and Astronomy

Division of Astronomy and Space Physics

Declaration

2 July 2017

I declare that in the publication

Smiljanic, R., **Korn, A.**, Bergemann, M., Frasca, A., Magrini, L., Masseron, T., and 96 co-authors; *Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars*, 2014, *Astronomy & Astrophysics*, 570, A122,

my contribution was **in co-organizing the spectroscopic analyses that are presented, critically assessing the outcome of the homogenization procedure and discussing the presentation of the results.** I estimate the share of my contribution in this publication as **10 %**.

With kind regards,

A handwritten signature in black ink that reads 'A. Korn'.

Andreas Korn  
Reader in Astronomy



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Andreas Korn  
Box 516  
S-751 20 Uppsala

Visiting address  
Lägerhyddsvägen 1  
Uppsala

Telefon: 018 471 59 94  
Telefax: 018 471 59 99  
E-post: [andreas.korn@fysast.uu.se](mailto:andreas.korn@fysast.uu.se)

Heidelberg, Germany, August 28, 2017

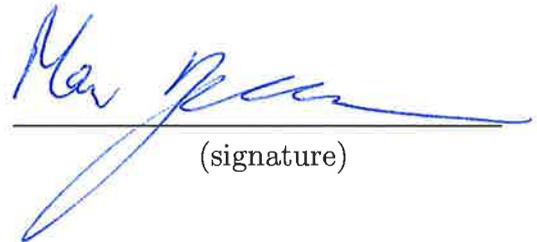
Dr. Maria Bergemann  
Max-Planck Institut für Astronomie  
Königstuhl 17  
69117 Heidelberg, Germany

## Declaration

I declare that in the publication

Smiljanic, R., Korn, A., **Bergemann, M.**, Frasca, A., Magrini, L., Masseron, T., and 96 co-authors; *Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars*, 2014, *Astronomy & Astrophysics*, 570, A122,

my contribution was **the development of the abundance and stellar parameter pipeline for the LUMBA node and of the microturbulence relationship for the analysis of the high- and low-resolution survey spectra**. I estimate the share of my contribution in this publication as **5 %**.



(signature)

Catania, Italy, July 8, 2017

Dr. Antonio Frasca  
INAF – Osservatorio Astrofisico di Catania  
via S. Sofia 78  
95123, Catania, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Korn, A., Bergemann, M., **Frasca, A.**, Magrini, L., Masseron, T., and 96 co-authors; *Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars*, 2014, *Astronomy & Astrophysics*, 570, A122,

my contribution was to derive the atmospheric parameters with the code ROTFIT that was developed by myself and adapted to the analysis of UVES spectra of the Gaia-ESO survey. I estimate the share of my contribution in this publication as 10%.



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(signature)

Florence, Italy, July 4, 2017

Dr. Laura Magrini  
INAF – Osservatorio Astrofisico di Arcetri  
Largo Enrico Fermi 5  
50125 Florence, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Korn, A., Bergemann, M., Frasca, A., **Magrini, L.**, Masseron, T., and 96 co-authors; *Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars*, 2014, *Astronomy & Astrophysics*, 570, A122,

my contribution was to design the code for the spectral analysis, to participate to the analysis of the Gaia-ESO spectra for the determination of the atmospheric parameters and abundances. I estimate the share of my contribution in this publication as 10 %.

  
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(signature)

Rio de Janeiro, Brazil, July 5, 2017

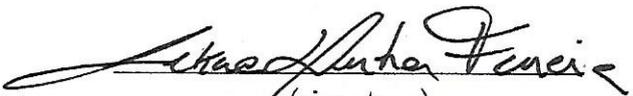
Dr. Letícia Dutra Ferreira  
Departamento de Ciências da Natureza,  
Inst. de Aplicação Fernando Rodrigues da Silveira,  
Universidade Estadual do Rio de Janeiro  
Rua Santa Alexandrina 288  
20261-232, Rio Comprido/RJ, Brazil

### Declaration

I declare that in the publication

**Dutra Ferreira, L.**, Pasquini, L., Smiljanic, R., Porto de Mello, G. F., Steffen, M.; *Consistent metallicity scale for cool dwarfs and giants: A benchmark test using the Hyades*, 2016, *Astronomy & Astrophysics*, 585, A75,

my contribution was to select and reduce part of the data, to derive the abundances and the stellar parameters of the stars, to establish a novel calibration to determine the microturbulence velocity using 3D models and write the paper. I estimate the share of my contribution in this publication as 60 %.

  
(signature)

Garching bei München, Germany, June 30, 2017

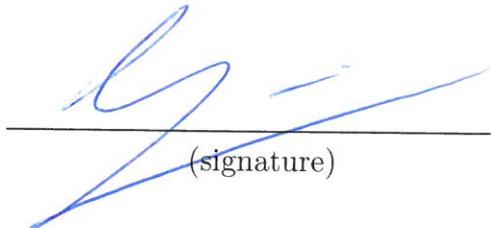
Dr. Luca Pasquini  
European Southern Observatory  
Karl-Schwarzschild-Str. 2  
85748 Garching bei München, Germany

## Declaration

I declare that in the publication

Dutra Ferreira, L., **Pasquini, L.**, Smiljanic, R., Porto de Mello, G. F., Steffen, M.; *Consistent metallicity scale for cool dwarfs and giants: A benchmark test using the Hyades*, 2016, *Astronomy & Astrophysics*, 585, A75,

As co-supervisor of the PHD student Leticia Dutra - Ferreira, my main contribution was proposing her this topic and guiding her in the selection of the stars and following up her in the different steps of the analysis and interpretation. I estimate the share of my contribution in this publication as **20 %**.



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(signature)

Rio de Janeiro, Brazil, August 17, 2017

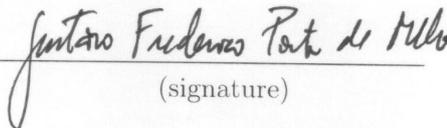
Dr. Gustavo F. Porto de Mello  
Observatório do Valongo  
Universidade Federal do Rio de Janeiro  
Ladeira do Pedro Antônio 43  
20080-090, Rio de Janeiro, Brazil

### Declaration

I declare that in the publication

Dutra Ferreira, L., Pasquini, L., Smiljanic, R., **Porto de Mello, G. F.**, Steffen, M.; *Consistent metallicity scale for cool dwarfs and giants: A benchmark test using the Hyades*, 2016, *Astronomy & Astrophysics*, 585, A75,

my contribution was to participate in the discussion of methods to derive the atmospheric parameters  $T_{\text{eff}}$ ,  $[\text{Fe}/\text{H}]$  and  $\log g$ , and the analysis of the consistency of the results. I estimate the share of my contribution in this publication as 10 %.

  
(signature)

Potsdam, Germany, June 30, 2017

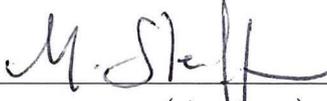
Dr. Matthias Steffen  
Leibniz-Institut für Astrophysik Potsdam  
An der Sternwarte 16  
14482, Potsdam, Germany

### Declaration

I declare that in the publication

Dutra Ferreira, L., Pasquini, L., Smiljanic, R., Porto de Mello, G. F., **Steffen, M.**; *Consistent metallicity scale for cool dwarfs and giants: A benchmark test using the Hyades*, 2016, *Astronomy & Astrophysics*, 585, A75,

my contribution was to compute the synthetic spectra required for the calibration of the microturbulence based on 3D model atmospheres, and to write the parts of the paper related to this novel approach. I estimate the share of my contribution in this publication as 20%.

  
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(signature)

Bologna, Italy, July 18, 2017

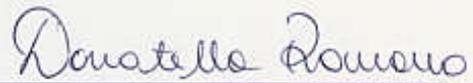
Dr. Donatella Romano  
INAF – Osservatorio Astronomico di Bologna  
via Gobetti 93/3  
40129 Bologna, Italy

### Declaration

I declare that in the publication

Smiljanic, R., **Romano, D.**, Bragaglia, A., Donati, P., Magrini, L., Friel, E. and 37 co-authors; *The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Implications for stellar and Galactic chemical evolution*, 2016, *Astronomy & Astrophysics*, 589, A115,

my contribution was the comparison of the data sample presented in the paper with the predictions of my chemical evolution models (both previously published and updated with the use of new stellar yields for the purpose of this article); in particular, I wrote Section 4 of the paper and made figures 8-9-10-11. I critically revised the whole manuscript and approved the final version to be published. I estimate the share of my contribution in this publication as 18 %.



(signature)

Bologna, Italy, June 30, 2017

Dr. Angela Bragaglia  
INAF – Osservatorio Astronomico di Bologna  
via Gobetti 93/3  
40129 Bologna, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Romano, D., **Bragaglia, A.**, Donati, P., Magrini, L., Friel, E. and 37 co-authors; *The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Implications for stellar and Galactic chemical evolution*, 2016, *Astronomy & Astrophysics*, 589, A115,

my contribution was **to select targets and prepare the observations for the cluster stars, to perform part of the observations and abundance analysis, discuss the subject, participate in paper organizing and writing.** I estimate the share of my contribution in this publication as 15 %.



(signature)

Bologna, Italy, July 5, 2017

Dr. Paolo Donati  
INAF – Osservatorio Astronomico di Bologna  
via Gobetti 93/3  
40129 Bologna, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Romano, D., Bragaglia, A., **Donati, P.**, Magrini, L., Friel, E. and 37 co-authors; *The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Implications for stellar and Galactic chemical evolution*, 2016, *Astronomy & Astrophysics*, 589, A115,

my contribution was to **reduce the data and to estimate the turn-off mass of the open clusters used in the analysis**. I estimate the share of my contribution in this publication as 10 %.

  
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(signature)

Florence, Italy, July 4, 2017

Dr. Laura Magrini  
INAF – Osservatorio Astrofisico di Arcetri  
Largo Enrico Fermi 5  
50125 Florence, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Romano, D., Bragaglia, A., Donati, P., **Magrini, L.**, Friel, E. and 37 co-authors; *The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Implications for stellar and Galactic chemical evolution*, 2016, *Astronomy & Astrophysics*, 589, A115,

my contribution was to participate to the spectral analysis and to the determination of the chemical abundances. I estimate the share of my contribution in this publication as 5 %.



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(signature)

Florence, Italy, September 5, 2017

Dr. Elena Franciosini  
INAF – Osservatorio Astrofisico di Arcetri  
Largo Enrico Fermi 5  
50125 Florence, Italy

## Declaration

I declare that in the publication

Smiljanic, R., **Franciosini, E.**, Randich, S., Magrini, L., Bragaglia, A., Pasquini, L., Vallenari, A., and 28 co-authors; *The Gaia-ESO Survey: Inhibited extra mixing in two giants of the open cluster Trumpler 20?*, 2016, *Astronomy & Astrophysics*, 591, A62,

my contribution was **the participation in the UVES data reduction, the measure of lithium abundances, and contribution to the discussion**. I estimate the share of my contribution in this publication as **15 %**.

Elena Franciosini

(signature)

Florence, Italy, July 4, 2017

Dr. Sofia Randich  
INAF – Osservatorio Astrofisico di Arcetri  
Largo Enrico Fermi 5  
50125 Firenze, Italy

### Declaration

I declare that in the publication

Smiljanic, R., Franciosini, E., **Randich, S.**, Magrini, L., Bragaglia, A., Pasquini, L., Vallenari, A., and 28 co-authors; *The Gaia-ESO Survey: Inhibited extra mixing in two giants of the open cluster Trumpler 20?*, 2016, *Astronomy & Astrophysics*, 591, A62,

my contribution was **the coordination of the Gaia-ESO Survey project and comments on the interpretation of the results**. I estimate the share of my contribution in this publication as **15%**.



(signature)

Florence, Italy, July 4, 2017

Dr. Laura Magrini  
INAF – Osservatorio Astrofisico di Arcetri  
Largo Enrico Fermi 5  
50125 Florence, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Franciosini, E., Randich, S., **Magrini, L.**, Bragaglia, A., Pasquini, L., Vallenari, A., and 28 co-authors; *The Gaia-ESO Survey: Inhibited extra mixing in two giants of the open cluster Trumpler 20?*, 2016, *Astronomy & Astrophysics*, 591, A62,

my contribution was to participate to the spectral analysis, to the determination of the chemical abundances and to the discussion of the scientific results. I estimate the share of my contribution in this publication as 7 %.



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(signature)

Bologna, Italy, June 30, 2017

Dr. Angela Bragaglia  
INAF – Osservatorio Astronomico di Bologna  
via Gobetti 93/3  
40129 Bologna, Italy

## Declaration

I declare that in the publication

Smiljanic, R., Franciosini, E., Randich, S., Magrini, L., **Bragaglia, A.**, Pasquini, L., Vallenari, A., and 28 co-authors; *The Gaia-ESO Survey: Inhibited extra mixing in two giants of the open cluster Trumpler 20?*, 2016, *Astronomy & Astrophysics*, 591, A62,

my contribution was: **to select targets and prepare the observations, to perform part of the observations and abundance analysis, discuss the subject and comment.** I estimate the share of my contribution in this publication as **5 %**.



(signature)