

## Education

- 16 Dec 2013 **Docteur ès sciences (PhD) in Astronomy & Astrophysics**  
University of Geneva, Department of Astronomy, Switzerland  
Thesis advisors: [Laurent Eyer](#) and [Nami Mowlavi](#)  
Distinction: summa cum laude (très bien = highest possible)
- 30 Apr 2009 **Diplom (MSc) in Physics**  
Georg-August-Universität Göttingen, Germany  
Thesis advisor: [Ansgar Reiners](#)  
Distinction: very good (sehr gut)

## Research experience

- Since 02/2021 **Group Leader & SNSF Eccellenza Professorial Fellow**  
EPFL, School of Basic Sciences, Institute of Physics, Anderson Group  
ERC & SNSF funded group targeting Standard Candles and Distances  
Switzerland
- 09/2020 – 11/2020 **Visiting Scientist**  
Excellence Cluster ORIGINS, Universitätssternwarte, Ludwig-Maximilians-Universität München, Germany
- 09/2017 – 08/2020 **ESO fellow**  
European Southern Observatory, Garching b. München, Germany
- 11/2014 – 07/2017 **SNSF Early Postdoc.Mobility fellow**  
The Johns Hopkins University, Department of Physics & Astronomy, Baltimore, MD, USA  
*Independent research (100%); host: [Adam Riess](#)*
- 01 – 09/2014 **Postdoctoral researcher**  
University of Geneva, Department of Astronomy, Switzerland  
Advisors: [Corinne Charbonnel](#) and [Laurent Eyer](#)

## Grants and awards

- 2020 **European Research Council (ERC) Starting Grant** (Grant No. 947660, 1.836 Million EUR)
- 2020 **SNSF Eccellenza Professorial Fellowship** (Award No. PCEFP2\_194638, 1.696 Million CHF)
- 2020 – 2022 [ISSI topical team](#) (SHoT), Bern, Switzerland (leader: G. Clementini)
- 2020 Long-term visitorship, excellence cluster ORIGINS, Munich, Germany
- 2017 – 2020 **European Southern Observatory Research Fellowship**, HQ Garching (3 years FTE)
- 2019 Grant (as chair) to host international conference at ESO in 2020 (EUR 5,000)
- 2018 Grant (as co-chair) to host international conference at ESO in 2019 (EUR 5,000)
- 2018 Co-Proposer of first [ESO Summer Research Program](#) (EUR 19,000)
- 2016 First co-Investigator of funded STScI DDRF proposal (PI: L. Strolger, USD 23,100)
- 2016 2<sup>nd</sup> prize for talk at Johns Hopkins University postdoctoral association meeting (USD 250)
- 2014 – 2016 **Early Postdoc.Mobility Fellowship** (Swiss NSF, Grant No 155687; CHF 88,650)
- 2013 **Prix spécial de la faculté des sciences** (Plantamour-Prévost Prize), University of Geneva
- 2012 – 2014 Contributed to successful SNSF grant at University of Geneva (PI: L. Eyer, CHF 436,274)

## Languages

**English** (bi-lingual)    **German** (native)    **French** (fluent)    **Spanish** (basics)    **Swedish** (basics)

## Student supervision and mentoring

Since 09/2017	PhD co-supervisor: Sara Mancino (ESO Garching, Germany)
2019	Supervisor at ESO Summer Research Program, Samuel Ward (Durham University, UK)
2018 – 2019	Fellow mentor, ESO PhD student Kateryna Kravchenko (now ESO fellow in Chile)
2017 – 2018	Fellow mentor, PhD student Lisa Löbbling during 1-year ESO studentship
2014 – 2017	PhD co-advisor: Caroline Huang (Johns Hopkins University, USA)

## Teaching activities

07/2020	Opening lecture of second ESO Summer Student Program, ESO Garching, Germany
07/2019	Opening lecture of first ESO Summer Student Program, ESO Garching, Germany
09/2009 – 08/2013	Teaching assistant for undergraduate lab in astrophysics (TP3), University of Geneva

## Organization of scientific meetings

06/2019 – 06/2020	Lead organizer (SOC & LOC chair), first global live e-conference at ESO: <a href="#">#H02020</a>
08/2018 – 08/2019	Co-organizer, first international <a href="#">ESO Summer Student Research Program</a>
06/2018 – 09/2019	SOC co-chair & LOC lead, <a href="#">MCS2019 – A synoptic view of the Magellanic Clouds</a>
02 – 10/2019	SOC member, <a href="#">RRL/Cep 2019–Frontiers of Classical Pulsators</a>
05 – 07/2017	Co-organizer, <i>HotSci</i> colloquium series, STScI, Baltimore, MD, USA
03/2012	LOC member, 42 <sup>nd</sup> Saas-Fee course, “Dynamics of Young Star Clusters & Associations”

## Institutional responsibilities

11/2019	Contributed to ESO fellowship selection
08/2019	Science verification team member: testing ESPRESSO fed by four 8m telescopes
02 – 04/2019	ESO Student & Fellow representation in selection of Deputy Head of Office for Science
10/2018	Scientific Assistant for ESO Observing Programmes Committee (OPC)
2017 – 2020	Established group meetings with researchers interested in Cepheids at ESO
07/2015 – 09/2016	Lead journal club organizer at Center for Astrophysical Sciences, Baltimore, MD, USA
10/2010 – 09/2014	Lead journal club organizer, stellar variability group, Geneva Observatory, Switzerland

## Reviewing activities

2020 & 2021	Canada-France-Hawaii Telescope Time Allocation Committee
2020	<b>European Commission Research Executive Agency (EC-REA)</b> , reviewer & panelist
2019 & 2020	National Science Center, Poland
12/2017 – 06/2018	Editor, <a href="#">Proceedings of the RR Lyrae 2017 Conference</a> , ISBN 978-83-938279-9-2
Since 2016	<b>Referee for leading astronomy journals</b> (typically 2-4/yr): Astronomy & Astrophysics, The Astrophysical Journal, The Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Springer Foundations of Physics

## Other relevant experience

- **271 nights of observing experience** as operator & night astronomer on 1m-class telescopes
- Data reduction pipeline development for ESPRESSO at ESO’s VLT; functional work 2017 – 2020
- Active member of coordination unit for variability processing in ESA mission *Gaia* (since 2009)

## Broader impact

06/2020	Made scientific e-conference, #H02020, publicly accessible via <a href="#">YouTube</a> live stream
07/2018	Press release: <a href="#">Hubble and Gaia Team Up to Fuel Cosmic Conundrum</a>
03/2018	ESO blog post: <a href="#">Probing Polaris</a>
2015 & 2016	Collaborations with artists at Maryland Institute College of Art, Baltimore, MD, USA
05/2015	Press release: <a href="#">Revealing Delta Cephei's Secret Companion and Intriguing Past</a>
Since 2009	Frequent public outreach involving presentations, observations, workshops, interviews, for example as ESO ambassador at science festival in Courbevoie, near Paris (2018)

## Talks at international conferences

### 6 invited and 16 contributed talks at international conferences and workshops since 2010

<b>Upcoming invited talk:</b> <i>"Best practices for e-conferencing: insights based on ESO #H02020"</i>	28 Jun 21
<i>Sustainable High Energy Physics Conference, <a href="#">Online</a>, 28 – 30 June 2021</i>	
<i>"Informing the distance scale with precise observations of Cepheids"</i>	22 Jan 20
Frontiers of Stellar Physics: The Theory-Observation Interface, Zagreb, Croatia	
<i>"High-precision radial velocity observations of Cepheids"</i>	20 Oct 19
108 <sup>th</sup> annual meeting of the AAVSO, Las Cruces, NM, USA	
<i>"On Distance Ladder Biases Related to Pulsating Stars"</i>	18 Oct 19
RRLCep 2019 – Frontiers of classical pulsators: theory and observations, Cloudcroft, NM	
<i>"Cepheids in the Magellanic Clouds as Laboratories of Stellar Physics"</i>	10 Sep 19
A synoptic view of the Magellanic Clouds: VMC, Gaia and beyond	
<b>Keynote presentation:</b> <i>"Cepheids under the magnifying glass – not so simple, after all!"</i>	19 Aug 19
Stars and their Variability, Observed from Space, Vienna, Austria	
<i>"Investigating H<sub>0</sub> systematics related to the physical association of Cepheids with other stars"</i>	8 Nov 18
Hubble Controversy pre-Symposium, Astrophysikalisches Institut Potsdam, Germany	
<i>"Classical Cepheids: sensitive astrophysical laboratories and accurate standard candles"</i>	6 Sep 18
A revolution in stellar physics with Gaia and large surveys, Warsaw, Poland	
<i>"Challenges and Opportunities of the Cosmic Distance Scale in the Era of Accurate Parallaxes"</i>	30 Aug 18
XXX <sup>th</sup> International Astronomical Union General Assembly, Symposium 348, Vienna, Austria	
<b>Invited talk:</b> <i>"Stellar Association Bias due to Cepheids in Binary Systems and Star Clusters"</i>	13 Jun 18
MIAPP workshop on The Extragalactic Distance Scale in the Gaia Era, Garching, Germany	
<b>Invited talk:</b> <i>"Radial Velocity Observations of Classical Pulsators"</i>	20 Sep 17
RRL2017 conference in Niepołomice, Poland	
<i>"Estimating Parallax Error due to Orbital Motion for 19 Long-period Cepheids observed using HST/WFC3"</i>	7 Jan 17
— 229 <sup>th</sup> meeting of the American Astronomical Society, Grapevine, TX, USA	
<b>Invited talk:</b> <i>"Evolved Pulsating Stars as Astrophysical Laboratories and Cosmic Yardsticks in the Gaia Era"</i>	6 Dec 16
— ESA postdoctoral jamboree, ESA-ESTEC, Noordwijk, Netherlands	
<i>"On the Effects of Rotation on the Evolution and Pulsation Properties of Classical Cepheids"</i>	1 Dec 16
Talk at San Pedro Los Alamos Pulsation Conference, San Pedro de Atacama, Chile	
<i>"Vetting high-accuracy calibrators of the Galactic Leavitt Law via radial velocities"</i>	6 Jul 16
EWASS 2016 Symposium No. 1 (Gaia, distance scale), Athens, Greece	
<i>"Investigating I Carinae's cycle-to-cycle variations using VLTI/PIONIER and EULER/CORALIE"</i>	5 Jul 16
EWASS 2016 Special Session 3 (evolved stars at high angular resolution), Athens, Greece	
<i>"High-precision velocimetry reveals <math>\delta</math> Cephei's secret companion"</i>	7 Aug 15
XXIX IAU General Assembly, Division G meeting, Honolulu, HI, USA	

<i>“Classical Cepheids: high-precision velocimetry, cluster membership, and the effect of rotation”</i> thesis talk at 225 <sup>th</sup> meeting of the American Astronomical Society, Seattle, WA, USA	7 Jan 15
<i>“Cepheids in open clusters in the Gaia era: a homogeneous 8D all-sky census”</i> European Week of Astronomy and Space Sciences 2014, Symposium 3, Geneva, Switzerland	1 Jul 14
<b>Invited talk:</b> <i>“The effect of rotation on populations of classical Cepheids”</i> MIAPP workshop on The Extragalactic Distance Scale, Garching, Germany	03 Jun 14
<i>“Cepheids in Galactic open clusters: a literature-based all-sky census in 8D”</i> XXIIIXth International Astronomical Union General Assembly, Symposium 289, Beijing, China	28 Aug 12
<i>“Open clusters, variable stars, and Gaia”</i> GREAT-ESF workshop on open clusters and young associations, Catania, Sicily, Italy	14 May 10

## Invited colloquia, seminars, lectures, other oral presentations

### 16 invited colloquia and 18 seminars

<i>Georg-August-Universität Göttingen, Institut für Astrophysik, Göttingen, Germany, <b>invited e-colloquium</b></i>	22 Apr 21
<i>Excellence Cluster ORIGINS guest lecture, Munich, Germany, <b>invited e-colloquium</b></i>	30 Nov 20
<i>University of Hamburg, Hamburg Observatory, Germany, <b>invited e-colloquium</b></i>	4 Nov 20
<i>European Southern Observatory, HQ Garching, Germany, informal discussion</i>	1 Jul 20
<i>Leiden University, Sterrewacht, Netherlands, <b>invited General Astrophysics Colloquium</b></i>	5 Mar 20
<i>Landessternwarte &amp; MPIA, Heidelberg, Germany, <b>invited Königstuhl Colloquium</b></i>	15 Nov 19
<i>Max-Planck-Institut für Astronomie (MPIA), Heidelberg, Germany, <b>invited seminar</b></i>	27 Jun 19
<i>Max-Planck-Institut für Astrophysik (MPA), Garching, Germany, SESTAS seminar</i>	24 Apr 19
<i>European Southern Observatory, HQ Garching, Germany, Stellar and Planetary tea seminar</i>	29 Mar 19
<i>University of Cologne, Erstes Physikalisches Institut, Cologne, Germany, <b>invited seminar</b></i>	25 Mar 19
<i>University of Bonn, Argelander Institut für Astronomie, Bonn, Germany, <b>invited seminar</b></i>	22 Mar 19
<i>Stockholm University, Department of Astronomy, Stockholm, Sweden, <b>colloquium</b></i>	15 Mar 19
<i>Uppsala University, Department of Physics and Astronomy, Uppsala, Sweden, <b>colloquium</b></i>	14 Mar 19
<i>European Southern Observatory, HQ Garching, Germany, Knowledge Exchange Series lecture</i>	11 Mar 19
<i>Universitätssternwarte, Ludwig-Maximilians-Universität, München, Germany, <b>colloquium</b></i>	14 Nov 18
<i>Universität Innsbruck, Institute for Astro- &amp; Particle Physics, Innsbruck, Austria, <b>colloquium</b></i>	21 Oct 18
<i>Observatoire de Paris, Meudon, France; <b>colloquium</b></i>	15 Oct 18
<i>University of Washington, Department of Astronomy, Seattle, WA, USA; seminar talk</i>	1 Jun 17
<i>Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA; stellar seminar talk</i>	22 May 17
<i>Space Telescope Science Institute, Baltimore, MD, USA; postdoc Jamboree</i>	15 Feb 17
<i>Space Telescope Science Institute, Baltimore, MD, USA; CoolSci series colloquium</i>	25 Jan 17
<i>EPFL, Laboratoire d’Astrophysique, Sauverny, Switzerland; <b>colloquium</b></i>	9 Dec 16
<i>European Southern Observatory, Vitacura, Santiago, Chile; lunch talk</i>	1 Dec 15
<i>NASA Goddard Space Flight Center – JHU interaction day, Baltimore, MD, USA; talk</i>	18 Nov 15
<i>Space Telescope Science Institute, Baltimore, MD, USA; HotSci series colloquium</i>	22 Jul 15
<i>University of Toronto, Department of Astronomy &amp; Astrophysics, Toronto, ON, Canada; stellar physics seminar series talk</i>	6 Jul 15
<i>Université de Genève, Département d’Astronomie, Geneva, Switzerland; <b>colloquium</b></i>	2 Jun 15
<i>Johns Hopkins University Postdoctoral Retreat, Baltimore, MD, USA; talk to general science audience from all departments; won travel award</i>	7 Apr 15

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<i>The Johns Hopkins University, Center for Astronomical Sciences, Baltimore, MD, USA;</i> wine & cheese seminar series	8 Dec 14
<i>Yale University, Department of Astronomy, New Haven, CT, USA;</i> stellar tea seminar talk	21 Jan 14
<i>Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA;</i> lunch talk	17 Jan 14
<i>European Southern Observatory, Vitacura, Santiago, Chile;</i> lunch talk	28 May 13
<i>Universidad de Concepcion, Departamento de Astronomía, Concepcion, Chile;</i> <b>colloquium</b>	27 May 13
<i>American Museum for Natural History, New York, NY, USA;</i> astronomical seminar talk	26 Nov 12
<i>Villanova University, Department of Astrophysics, Villanova, PA, USA;</i> <b>colloquium</b>	15 Nov 12