

# Federico Lelli

## Curriculum Vitae

European Southern Observatory  
Headquarters Germany  
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### Personal Information

Date of Birth 16 July 1984  
Place of Birth Chiaravalle (Ancona), Italy  
Nationality Italian

### Education & Degrees

- 2009–2013 **Ph.D.**, *Astronomy (cum laude – top 5%)*, University of Groningen, Netherlands.  
Thesis: Starbursts and gas dynamics in low-mass galaxies
- 2006–2009 **M.S.**, *Astrophysics & Cosmology (cum laude)*, University of Bologna, Italy.  
Thesis: Dark and luminous matter in giant low surface brightness galaxies
- 2003–2006 **B.S.**, *Astronomy (cum laude)*, University of Bologna, Italy.  
Thesis: Stationary models for the rotation of extra-planar gas in disc galaxies

### Research Experience

- 2020–Present **Research Associate**, Cardiff University, Cardiff (UK).
- 2019–Present **Regular Visitor**, Kavli Institute for Cosmology, Cambridge (UK).
- 2017–2019 **Research Fellow**, European Southern Observatory (ESO), Garching (Germany).
- 2014–2016 **Research Scholar**, Case Western Reserve University (CWRU), Cleveland (Ohio).

### Fundings & Awards

- 2017–2019 ESO Postdoctoral Fellowship (€200k). Three years of independent research at ESO.
- 2014–2016 Grant from the John Templeton Foundation (\$365k) for three years of research at CWRU (PI: S.S. McGaugh, Co-Is: F. Lelli & M. Pawlowski).
- 2009–2013 Ubbo Emmius Scholarship from the Groningen Graduate School of Science (€100k). Four years of Ph.D. research on a project proposed and designed by the student.
- 2009–2013 Leids Kerkhoven-Bosscha Fonds (€3k) to attend international meetings.

### Community Work

- 2018–2019 ALMA Helpdesk Triage. User support via the ALMA helpdesk (European ARC).
- 2017–2018 ALMA Astronomer on Duty (28 days in total). Scheduling and execution of observations at the ALMA site (Operations Support Facility, Chile).
- 2017–2018 ALMA Data Analyst. Calibration, imaging, and quality assurance of ALMA data.

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## Scientific Outputs

Publications: **37** refereed papers, **17** as 1<sup>st</sup> author, **9** as 2<sup>nd</sup> author. Median # of authors = **4**. H-index = **19**. Total Citations = **1389** (source: NASA/ADS on 21/01/2020).

Conferences: **7** invited reviews. **2** invited opening talks. **26** contributed talks. **2** posters.

Other Talks: **13** invited colloquia and **25** short seminars/talks in America, Australia, and Europe.

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## Main Collaborations

2019–Present **TRICEPS** (Tracing Rotation with Ionized Carbon in Early Primeval Systems): approved [CII] survey with ALMA (27 hrs) to study the distribution and kinematics of cold gas in galaxies at  $z = 4 - 5$  with a resolution of  $\sim 500$  pc. **PI: F. Lelli**.

2019–Present **WALLABY**: the all-sky HI survey with the Australian Square Array Kilometre Pathfinder (ASKAP). I am a member of the Technical Working Group “Kinematics Pipeline” and the Science Working Groups “Medium Resolution: The Local Volume” and “Low Resolution: The Local Universe”. PIs: B. Koribalski & L. Staveley-Smith.

2017–Present **SONG** (Satellites Of Nearby Galaxies): spectro-photometric survey with Subaru and the ESO-VLT (FORS+MUSE) to study the distribution and kinematics of dwarf satellite systems around major galaxies within 10 Mpc. I have the role of expert in the dynamical analysis of the dwarf satellite systems. PIs: O. Müller & E. Jerjen.

2015–Present **TDG** (Tidal Dwarf Galaxies) collaboration, including *P.-A. Duc* and *E. Brinks*. A multi-wavelength observational campaign to study the formation of dwarf galaxies around interacting/merging systems in the nearby Universe. I have the role of expert in radio/mm/submm interferometric observations and in the dynamical analysis.

2014–Present **SPARC** (Spitzer Photometry and Accurate Rotation Curves) collaboration, including *S.S. McGaugh* and *J.M. Schombert*. SPARC is a publicly available database providing rotation curves and mass models for 175 galaxies. I am a *core member* of the team, having created the database and led several key papers from the SPARC project.

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## Students Supervision

2016–Present **P. Li**, *Ph.D. student*, CWRU (USA). Co-supervision with S.S. McGaugh. *Status*: Three papers published. Two papers in preparation.

05–06 2019 **J. Petersen**, *Ph.D. student*, University of Southern Denmark (Odense). *Status*: 2 months visit at ESO with Danish funds. One paper published.

2018–2019 **A. Shelest**, *Master student*, Ludwig Maximilian University (Munich, Germany). *Status*: Thesis completed. One paper in preparation.

2017–2018 **N. Starkman**, *Bachelor student*, CWRU (USA). Co-supervision with S.S. McGaugh. *Status*: Thesis completed. One paper published. Now Ph.D. student at Toronto University.

2015–2016 **E. Tarantino**, *Bachelor student*, CWRU (USA). Co-supervision with S.S. McGaugh. *Status*: Thesis completed. Now Ph.D. student at the University of Maryland.

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## Teaching Activities

Feb. 2019 **Knowledge Exchange Series** (KES). Lecture on the Tully-Fisher relation at a master level as part of the KES program at ESO ( $\sim 1$  hr).

2015–2016 **Astronomy 151**. Contributed lectures on basic extragalactic Astronomy to bachelor students at CWRU ( $\sim 4$  hrs). Course held by Prof. C. Mihos.

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## Commissions of Trust & Refereeing

- October 2019 Reviewer of job applications for the ESO Fellowship Programme (Garching).
- March 2019 Co-chair of the students' selection committee of the ESO Summer Research Program.
- October 2018 Reviewer for the Chilean National Science and Technology Commission (CONICYT).
- June 2018 Request to be a panel member for the NASA's Astrophysics Data Analysis Program (ADAP 2018). I had to decline due to ALMA commitments.
- January 2018 Reviewer for the Time Allocation Committee of the Giant Metrewave Radio Telescope.
- June 2017 Request to be a panel member for the NASA's Astrophysics Data Analysis Program (ADAP 2017). I had to decline due to other commitments.
- October 2017 Reviewer for the South Africa National Research Foundation (NRF).
- February 2017 Member of the *PhD defence committee* of A. Ponomareva (Univ. of Groningen).
- October 2016 Member of the *PhD reading committee* of K. M. Mogotsi (Univ. of Cape Town).
- 2013–Present Reviewer for all major Astronomy journals (*A&A*, *AJ*, *ApJ*, *Ap&SS*, *MNRAS*, *Universe*) and Physics ones (*PRL*, *PRD*, *PRX*, *Annals of Physics*, *Physics of the Dark Universe*).

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## Workshops Organization

- 2020 Member of the SOC of the EAS symposia "*Stellar & Gas Kinematics in Galaxies across cosmic time, connecting observations with theory*" held in Leiden.
- 2018 Co-organizer of the international workshop "*Galaxy interactions and mergers across cosmic time*" held at the Sexten Center for Astrophysics and supported by RadioNet.
- 2017 Co-organizer of the international workshop "*Dwarf galaxies on the shoulders of giants*" held at CWRU and supported by the John Templeton Foundation.

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## Academic Activities

- 2017–2018 Fellow Mentor of the Ph.D. student Christian Peest (internal ESO responsibility).
- March 2017 Organizer of the ESO Garching Science Day 2017.
- 2015–2016 Organizer of the Colloquium Series at CWRU Astronomy Department.
- 2014–2015 Organizer of the weekly Journal Club at CWRU Astronomy Department.
- 2011–2013 Organizer of the weekly lunch-talks at the Kapteyn Astronomical Institute.

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## Outreach & Media

- June 2018 Interview for *Physics World* by Tim Wogan
- May 2018 Interview for *Quanta Magazine* by Natalie Wolchover
- March 2018 Interview for the Italian newspaper *Il Corriere Adriatico* by Lucilla Niccolini
- March 2018 Video contribution to the Italian web-show *Occhi al Cielo* by Ass. Astronomiamo
- February 2018 Interview for the Italian newspaper *La Repubblica* by Massimiliano Razzano
- February 2018 Interview for the *ESO blog* by Lauren Fuge
- February 2018 Interview for the Italian newsletter *Media INAF* by Marco Malaspina
- August 2017 Interview for *BBC Focus* magazine by Robert Matthews
- March 2017 Video contribution to the Italian web-show *Occhi al Cielo* by Ass. Astronomiamo
- October 2016 Interview for the Italian newsletter *Media INAF* by Corrado Ruscica
- October 2016 Interview for the Italian newspaper *Il Manifesto* by Andrea Capocci

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## Training Activities

- July 2019 ERC Grant Writing Training for ESO Staff & Fellows (1 day).  
June 2019 Supervising Training Course for ESO Fellows & Students (half day).  
October 2018 Basic Management Training Course for ESO Fellows & Students (2 days).  
October 2017 Courtesy, Respect & Fair-Treatment Training for ESO Fellows & Students (2 days).

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## Accepted Observing Proposals

Summary: Total = **21** PI = **11** Co-I = **10** Total hours > **500**

21. ALMA 2019 – **PI: Lelli F.** – 26.9 hours (A priority)
22. ALMA 2019 – PI: Bisbas T. – 16.3 hours (B priority)
20. ALMA 2019 – PI: Rizzo F. – 11 hours (C priority)
19. CFHT 2019 – PI: Posti L. – 15.7 hours (B priority)
18. ALMA 2018 – **PI: Lelli F.** – 7.8 hours (C priority)
17. ALMA 2018 – PI: Hunt L. – 8.1 hours (C priority)
16. Subaru 2018 – PI: Jerjen H. – 2 nights
15. GMRT 2018 – PI: Fraternali F. – 65 hours
14. WHT 2018 – PI: Knapen J. – 3 nights
13. VLA 2018 – PI: Janz J. – 25 hours (C priority)
12. ALMA 2017 – **PI: Lelli F.** – 4.3 (A priority)
11. VLT 2017 – PI: Müller O. – 46 hours (A & B priority)
10. VLA 2017 – PI: Hunt L. – 87 hours (B & C priority)
9. ALMA 2015 – **PI: Lelli F.** – 13.4 hours (B priority)
8. HST 2016 – PI: Duc P.-A. – 8 orbits
7. GMRT 2016 – PI: Verheijen M. – 55 hours
6. GMRT 2015 – **PI: Lelli F.** – 24 hours
5. VLA 2014 – **PI: Lelli F.** – 25 hours (B priority)
4. GMRT 2014 – **PI: Lelli F.** – 25 hours
3. WSRT 2012 – **PI: Lelli F.** – 12 hours
2. VLA 2012 – **PI: Lelli F.** – 17 hours (B priority)
1. VLA 2010 – **PI: Lelli F.** – 20 hours (B priority)

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## Refereed Papers as lead author or led by students

22. Petersen, J. & **Lelli F.** 2020, “*A first attempt to differentiate between modified gravity and modified inertia with galaxy rotation curves*”, A&A, in press, arXiv:2001:03348
21. Li P., **Lelli F.**, McGaugh S.S., Pawlowski M., Zwaan M., Schombert J.M. 2019, “*The halo mass function of late-type galaxies from HI kinematics*”, ApJL, 886, 11
20. **Lelli F.**, McGaugh S.S., Schombert J.M., Desmond H., Katz H. 2019, “*The baryonic Tully-Fisher relation for different velocity definitions and implications for galaxy angular momentum*”, MNRAS, 484, 3267
19. Li P., **Lelli F.**, McGaugh S.S., Starkman N., Schombert J.M. 2019, “*A constant characteristic volume density of dark matter haloes from SPARC rotation curve fits*”, MNRAS, 482, 5106

18. Starkman N., **Lelli F.**, McGaugh S.S., Schombert J.M. 2018, "A new algorithm to quantify maximum discs in galaxies", MNRAS, 480, 2292
17. **Lelli F.**, De Breuck C., Falkendal T., Fraternali F., Man A.W.S., Nesvadba N.P.H., Lehnert M. 2018, "Neutral versus ionized gas kinematics at  $z \simeq 2.6$ : The AGN-host starburst galaxy PKS 0529-549", MNRAS, 479, 5440
16. Li P., **Lelli F.**, McGaugh S.S., Schombert J.M. 2018, "Fitting the radial acceleration relation to individual SPARC galaxies", A&A, 615, A3
15. **Lelli F.**, McGaugh S.S., Schombert J.M. 2017, "Testing Verlinde's emergent gravity with the radial acceleration relation", MNRAS, 468, L68
14. **Lelli F.**, McGaugh S.S., Schombert J.M., Pawlowski M.S. 2017, "One law to rule them all: The radial acceleration relation of galaxies", ApJ, 836, 152
13. **Lelli F.**, McGaugh S.S., Schombert J.M., Pawlowski M.S. 2016, "The relation between stellar and dynamical surface densities in the central regions of disk galaxies", ApJL, 827, 19
12. **Lelli F.**, McGaugh S.S., Schombert J.M. 2016, "SPARC: Mass models for 175 disk galaxies with Spitzer Photometry and Accurate Rotation Curves", AJ, 152, 157
11. **Lelli F.**, McGaugh S.S., Schombert J.M. 2016, "The small scatter of the baryonic Tully-Fisher relation", ApJL, 816, L14
10. **Lelli F.**, Duc P.-A., Brinks E., McGaugh S.S. 2015, "Tidal dwarf galaxies: Disc formation at  $z = 0$ ", Galaxies, 3, 184. Special issue "3D View on Interacting and Post-Interacting Galaxies from Clusters to Voids".
9. **Lelli F.**, Duc P.-A., Brinks E., Bournaud F., McGaugh S.S., Lisenfeld U., Weilbacher P.M., Boquien M., Revaz Y., Braine J., Koribalski B.S., Belles P.-E. 2015, "Gas dynamics in tidal dwarf galaxies: Disc formation at  $z = 0$ ", A&A, 584, A113
8. **Lelli F.**, Verheijen M.A.W., Fraternali F. 2014, "The triggering of starbursts in low-mass galaxies", MNRAS, 445, 1694
7. **Lelli F.** 2014, "The inner regions of disc galaxies: A constant baryonic fraction?", Galaxies, 2, 292. Special issue "Beyond Standard Gravity and Cosmology".
6. **Lelli F.**, Verheijen M.A.W., Fraternali F. 2014, "Dynamics of starbursting dwarf galaxies. III. A HI study of 18 nearby objects", A&A, 566, A71
5. **Lelli F.**, Fraternali F., Verheijen M.A.W. 2014, "Evolution of dwarf galaxies: A dynamical perspective", A&A, 563, A27
4. **Lelli F.**, Fraternali F., Verheijen M.A.W. 2013, "A scaling-relation for disc galaxies: Circular-velocity gradient versus central surface brightness", MNRAS, 433, L30
3. **Lelli F.**, Verheijen M.A.W., Fraternali F., Sancisi R. 2012, "Dynamics of starbursting dwarf galaxies. II. UGC 4483", A&A, 544, A145
2. **Lelli F.**, Verheijen M.A.W., Fraternali F., Sancisi R. 2012, "Dynamics of starbursting dwarf galaxies: I Zw 18", A&A, 537, A72
1. **Lelli F.**, Fraternali F., Sancisi R. 2010, "Structure and dynamics of giant low surface brightness galaxies", A&A, 516, A11

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## Other Refereed Papers

15. Fahrion, K. and 8 co-authors (including **Lelli F.**) 2020, "Metal-poor nuclear star clusters in two dwarf galaxies near Centaurus A suggesting formation from the inspiraling of globular clusters", A&A, in press, arXiv:2001.02241

14. Müller O., Rejkuba M., Pawlowski M.S., Ibata R., **Lelli F.**, Hilker M., Jerjen H. 2019, "*The dwarf galaxy satellite system of Centaurus A*", A&A, 629, 18
13. Fensch J. and 11 co-authors (including **Lelli F.**) 2019, "*Massive star cluster formation and evolution in tidal dwarf galaxies*", A&A, 628, 60
12. Emsellem E. and 17 co-authors (including **Lelli F.**) 2019, "*The ultra-diffuse galaxy NGC 1052-DF2 with MUSE: I. Kinematics of the stellar body*", A&A, 625, 76
11. Desmond H., Katz H., **Lelli F.**, McGaugh S.S. 2019, "*Uncorrelated velocity and size residuals across galaxy rotation curves*", MNRAS, 484, 239
10. Katz. H, Desmond H., McGaugh S.S., **Lelli F.** 2019, "*The tight empirical relation between dark matter halo mass and flat rotation velocity for late-type galaxies*", MNRAS, 483, 98
9. Schombert J.M., McGaugh S.S., **Lelli F.** 2019, "*The mass-to-light ratios and the star-formation histories of disk galaxies*", MNRAS, 483, 1496
8. Katz H., Desmond H., **Lelli F.**, McGaugh S.S., Di Cintio A., Brook C.B., Schombert J.M. 2018, "*Stellar feedback and the energy budget of late-type galaxies: Missing baryons and core creation*", MNRAS, 480, 4287
7. Müller O., Pawlowski M.S., Jerjen. H., **Lelli F.** 2018, "*A whirling plane of satellite galaxies around Cen A challenges cold dark matter cosmology*", Science, 359, 534
6. McGaugh S.S., Schombert J.M., **Lelli F.** 2017, "*The star-forming main sequence of dwarf low surface brightness galaxies*", ApJ, 851, 22
5. Katz H., **Lelli F.**, McGaugh S.S., Di Cintio A., Brook C.B., Schombert J.M. 2017, "*Testing feedback-modified dark matter haloes with galaxy rotation curves: Estimation of halo parameters and consistency with  $\Lambda$ CDM*", MNRAS, 466, 1648
4. McGaugh S.S., **Lelli F.**, Schombert J.M. 2016, "*The radial acceleration relation in rotationally supported galaxies*", Physical Review Letters, 117, 201101
3. Lisenfeld U., Braine J., Duc P.-A., Boquien M., Brinks, E., Bournaud F., **Lelli F.**, Charmandaris V. 2016, "*Molecular gas and star formation in the tidal dwarf galaxy VCC 2062*", A&A, 590, 92
2. Di Cintio A. & **Lelli F.** 2016, "*The mass discrepancy acceleration relation in a  $\Lambda$ CDM context*", MNRAS, 456, L127
1. McQuinn K.B.W., **Lelli F.**, Skillman E.D., Dolphin A.E., McGaugh S.S., Williams B.F. 2015, "*The link between mass distribution and starbursts in dwarf galaxies*", MNRAS, 450, 3886

## Unrefereed Papers & Proceedings

3. McGaugh S.S., **Lelli F.**, Li P. and Schombert J., 2019, "*Dynamical regularities in galaxies*", invited review for the IAU Symposium 353: "Galaxy dynamics in the era of large surveys", arXiv:1909.02011
2. McGaugh S.S., Li P., **Lelli F.**, Schombert J.M. 2018, "*Presence of a fundamental acceleration scale in galaxies*", Nature Astronomy, 2, 924
1. McGaugh S.S., **Lelli F.**, Pawlowski M. and 21 co-authors, 2015, "*Comment on 'Evidence for dark matter in the inner Milky Way'*", arXiv:1503.07813

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## Invited Participation at International Meetings

9. **Review Talk**, at *“Extragalactic spectroscopic surveys: past, present and future of galaxy evolution”*, ESO, Santiago (Chile), 5-9 October 2020.
8. **Review Talk**, at *“Linking gas and star formation throughout cosmic time”*, EAS, Leiden (Netherlands), 30/06-01/07 2020.
7. **Opening Talk**, *“The functioning of galaxies: challenges for Newtonian and Milgromian dynamics”*, Bonn (Germany), 23-27 September 2019.
6. **Review Talk**, *“Cosmology@Malta2019”*, (declined due to other commitments). Valletta (Malta), 19-22 March 2019
5. **Review Talk**, at *“Cosmology on small scales 2018”*. Czech Academy of Sciences, Prague (Czech Republic), 26-29 September 2018
4. **Review Talk**, at *“Dark Matter 2018: from the smallest to the largest scales”*. Santander, Spain, 26-30 June 2018
3. **Lecture (1 hr)**, at *“Probing the dark sector and general relativity at all scales”*. CERN TH Institute, Geneva (Switzerland), 14-25 August 2017
2. **Lecture (1.5 hr)**, at *“ $\Lambda$ CDM, modified gravity or new dark matter models?”*. LTPHE, Paris (France), 29-31 May 2017
1. **Opening Talk & Session Chair**, at *“Dwarf galaxy workshop”*. ESO, Garching bei München (Germany), 10-13 October 2016

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## Contributions to International Meetings

28. **Talk**, *“Views of the interstellar medium in galaxies in the ALMA era”*. Bologna (Italy), 2-6 September 2019
27. **Talk**, *“Galaxy evolution in a new era of HI surveys”*. MIAPP, Garching bei München (Germany), 1-9 August 2019
26. **Talk**, *“Nine billion years of neutral gas evolution”*. ESO, Garching bei München (Germany), 29-31 July 2019
25. **Talk**, *“Galaxy dynamics in the era of large surveys”*. Shanghai (China), 1-5 July 2019
24. **Talk**, *“Birth, life and fate of massive galaxies and their central beating heart”*. Favignana (Italy), 3-7 September 2018
23. **Talk**, *“Tensions in the  $\Lambda$ CDM paradigm”*. Mainz (Germany), 14-18 May 2018
22. **Talk**, *“Galaxy interactions and mergers across cosmic time”*. Sexten (Italy), 12-16 March 2018
21. **Talk**, *“The role of gas in galaxy dynamics”*. Valletta (Malta), 2-6 October 2017
20. **Talk**, *“Challenges in galaxy evolution: From black holes to the cosmic web”*. Florence (Italy), 28 August - 1 September 2017
19. **Talk**, *“The galaxy ecosystem. Flow of baryons through galaxies”*. Garching bei München (Germany), 24-28 July 2017
18. **Talk**, *“In & Out. What rules the galaxy baryon cycle?”*. Garching bei München (Germany), 26 June -7 July 2017

17. **Talk**, “*Dwarf galaxies on the shoulders of giants*”.  
Cleveland (Ohio), 5-8 June 2017
16. **Talk**, “*Crossing the Rubicon: The fate of gas flows in galaxies*”.  
Santarcangelo di Romagna (Italy), 5-9 September 2016
15. **Talk**, “*Mapping the pathways of galaxy transformation across time and space*”.  
Catalina Island (California), 31 July - 5 August 2016
14. **Talk**, “*11<sup>th</sup> Great Lakes Cosmology and Galaxies Workshop*”.  
Hamilton (Canada), 19-22 June 2016
13. **Talk**, “*The journey of dwarf galaxies (EWASS)*”.  
Tenerife (Spain), 25-26 May 2015
12. **Talk**, “*Observational anomalies challenging the  $\Lambda$ CDM cosmological model (EWASS)*”.  
Tenerife (Spain), 22 May 2015
11. **Talk**, “*3D view on interacting and post-interacting galaxies (EWASS)*”.  
Tenerife (Spain), 22-23 May 2015
10. **Talk**, “*Multiwavelength dissection of galaxies*”.  
Sydney (Australia), 24-29 May 2015
9. **Talk**, “*The role of Hydrogen in the evolution of galaxies*”.  
Kuching (Malaysia), 15-19 September 2014
8. **Poster**, “*Galaxy masses as constraints of formation models (IAU Symp. 311)*”.  
Oxford (United Kingdom), 21-25 July 2014
7. **Talk**, “*Dwarf and irregular galaxies: Origins and dynamics (221<sup>th</sup> AAS meeting)*”.  
Long Beach (California), 6-10 January 2013
6. **Talk**, “*Gas for cosmology in the nearby Universe (EWASS 2012)*”.  
Rome (Italy), 1-6 July 2012
5. **Talk**, “*Star formation in dwarf galaxies - Lowell observatory workshop*”.  
Flagstaff (Arizona), 19-22 June 2012
4. **Poster**, “*Galaxy formation: An international conference*”.  
Durham (United Kingdom), 18-22 July 2011
3. **Talk**, “*Dark matter from globular clusters to clusters of galaxies*”.  
Bologna (Italy), 27-29 June 2011
2. **Talk**, “*40<sup>th</sup> Young European Radio Astronomers Conference (YERAC)*”.  
Alcala de Henares (Spain), 5-8 July 2010
1. **Talk**, “*Dark haloes from smallest to largest scales*”.  
Bologna (Italy), 29-30 June 2009

## Invited Colloquia

13. Kapteyn Astronomical Institute, Groningen (Netherlands), January 2020
12. AIP, Potsdam (Germany), September 2017
11. Strasbourg Observatory, Strasbourg (France), May 2017
10. University of Basel, Basel (Switzerland), April 2017
9. Florence Observatory (INAF), Florence (Italy), March 2017
8. Virtual Institute of Astroparticle Physics (VIA), December 2016
7. University of Rochester, Rochester (USA), November 2016
6. University of Wisconsin-Madison, Madison (USA), February 2016



5. Indiana University, Bloomington (USA), October 2015
4. Mount Stromlo Observatory, Canberra (Australia), June 2015
3. Australia Telescope National Facility, Sydney (Australia), May 2015
2. Kapteyn Astronomical Institute, Groningen (Netherlands), Dec. 2013
1. Case Western Reserve University, Cleveland (USA), January 2013

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## Seminars & Other Talks

25. Seminar, Kavli Institute for Cosmology, Cambridge (UK), November 2019
24. Seminar, ESO, Santiago (Chile), August 2018
23. Informal Discussion, ESO, Garching bei München (Germany), October 2018
22. Informal Discussion, ESO, Garching bei München (Germany), July 2018
21. Lunch Talk, Kapteyn Astronomical Institute, Groningen (Netherlands), Feb. 2017
20. Lunch Talk, ESO, Garching bei München (Germany), February 2017
19. Lunch Talk, Case Western Reserve University, Cleveland (USA), November 2016
18. Seminar, Institute of Astronomy, Cambridge (UK), July 2015
17. Seminar, Swinburne University, Melbourne (Australia), June 2015
16. Seminar, Pennsylvania State University, State College (USA), March 2015
15. Seminar, Observatory of Florence (INAF), Florence (Italy), December 2014
14. HI Meeting Talk, ASTRON, Dwingeloo (Netherlands), April 2013
13. Seminar, ASTRON, Dwingeloo (Netherlands), January 2013
12. Seminar, Leiden Observatory, Leiden (Netherlands), January 2013
11. Seminar, Columbia University, New York (USA), January 2013
10. Seminar, National Radio Astronomy Observatory, Socorro (USA), January 2013
9. Seminar, University of California, Santa Barbara (USA), January 2013
8. Seminar, University of Bologna, Bologna (Italy), October 2012
7. Lunch Talk, Kapteyn Astronomical Institute, Groningen (Netherlands), Sept. 2011
6. DART Meeting Talk, ISSI, Bern (Switzerland), September 2011
5. Local-Group Meeting Talk, University of Bologna, Bologna (Italy), June 2011
4. HI meeting Talk, ASTRON, Dwingeloo (Netherlands), May 2011
3. Lunch Talk, Kapteyn Astronomical Institute, Groningen (Netherlands), June 2010
2. Master Graduation Talk, University of Bologna, Bologna (Italy), October 2009
1. Prospective PhD Symposia, Leiden Observatory, Leiden (Netherlands), Feb. 2009