

List of communications

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12 November 2020

- Invited talks at international meetings**
10. *The multi-stream local Universe*
28-01-2020. [The Cosmic Web in the Local Universe](#), workshop at the Lorentz Center, Leiden, The Netherlands [slides]
 9. *Primordial power spectrum and cosmology from black-box galaxy surveys, Prospects for Euclid*
12-12-2019. [CoSyne: Cosmological Synergies in the upcoming decade](#), conference at the Institut d'Astrophysique de Paris, Paris, France [slides]
 8. *Cosmic web analysis and information theory*
17-06-2019. [The Cosmic Web: From Galaxies to Cosmology](#), workshop at the Higgs Centre, Royal Observatory, Edinburgh, UK [slides]
 7. *Bayesian inference with black-box cosmological models*
30-05-2019. [Machine Learning in Astronomy](#), Royal Statistical Society workshop at Lancaster University, Lancaster, UK [slides]
 6. *Bayesian optimisation for likelihood-free cosmological inference*
22-10-2018. Conference "Methods for Statistical Inference" during the [IHP Trimester 2018: Analytics, Inference, and Computation in Cosmology](#), Institut Henri Poincaré, Paris, France [slides]
 5. *Cosmic web analysis and Information Theory*
06-07-2018. [The Information Universe symposium](#), Groningen, The Netherlands [slides]
 4. *Bayesian large-scale structure inference*
08-07-2016. [BAO & RSD: dark light on obscure acronyms](#), workshop at the Sexten-CfA, Sesto, Italy [slides]
 3. *Cosmic web analysis and information theory: some recent results*
10-06-2016. [Mapping the Cosmic Web: A Frontier in Cosmology and Astrophysics](#), workshop at the Royal Astronomical Society, London, UK [slides]
 2. *Constrained simulations of the dynamic cosmic web*
27-11-2014. [Deciphering the dynamic Universe, confronting predictions with observations](#), workshop at the Max-Planck-Institut für Astrophysik, Garching, Germany [slides]
 1. *Bayesian inference of dark matter voids in galaxy surveys*
21-08-2014. [Cosmic Voids in the Next Generation of Galaxy Surveys](#), workshop at CCAPP, Columbus, Ohio, USA [slides]
- Invited Seminars**
12. *Bayesian analyses of galaxy surveys*
11-11-2019. [Cosmology lunch seminar, DAMTP, Institute of Astronomy & Cavendish Astrophysics](#), University of Cambridge, Cambridge, UK [slides]
 11. *Bayesian analyses of galaxy surveys*
02-05-2019. [Institut de Recherche en Astrophysique et Planétologie \(IRAP\)](#), Toulouse, France [slides]
 10. *Methods for Cosmic Web Analysis*
29-10-2018. Seminar during the [IHP Trimester 2018: Analytics, Inference, and Computation in Cosmology](#), Institut Henri Poincaré, Paris, France [slides]
 9. *Bayesian large-scale structure inference, likelihood-based and likelihood-free approaches*
13-04-2018. [Astrophysics seminar](#), University of Helsinki, Helsinki, Finland [slides]

8. *Bayesian large-scale structure inference, likelihood-based and likelihood-free approaches*
31-01-2018. Astrophysics Group, Imperial College London, London, UK [slides]
 7. *Farewell talk*
16-05-2017. Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, UK [slides]
 6. *How is the cosmic web woven? A Bayesian approach*
22-06-2016. Special Universe talk at the Excellence Cluster Universe, Garching, Germany [slides]
 5. *Probabilistic large-scale structure inference, cosmic web analysis and information theory*
25-04-2016. University of Sussex, Brighton, UK [slides]
 4. *Bayesian large-scale structure inference and cosmic web analysis*
08-12-2015. Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, UK [slides]
 3. *Bayesian large-scale structure inference and cosmic web analysis*
02-03-2015. GReCO seminar, Institut d’Astrophysique de Paris, Paris, France [slides]
 2. *How did structure appear in the Universe? A Bayesian approach*
09-12-2014. Physics Division Research Progress Meeting, Lawrence Berkeley National Laboratory, Berkeley, California, USA [slides]
 1. *Bayesian chrono-cosmography*
03-09-2014. Institute for Advanced Studies, Princeton, New Jersey, USA [slides]
- Contributed Talks**
9. *Likelihood-free inference from galaxy surveys, Prospects for Euclid*
27-06-2019. CosmoGold, The golden age of cosmology from Planck to Euclid, Institut d’Astrophysique de Paris, Paris, France [slides]
 8. *How is the cosmic web woven? Inference with generative cosmological models*
28-08-2017. COSMO17 conference, Paris, France [slides]
 7. *Cosmic web analysis and information theory: some recent results*
26-05-2016. Statistical Challenges in 21st Century Cosmology, Chania, Crete, Greece [slides]
 6. *Cosmic web analysis and information theory: some recent results*
13-01-2016. Statistical sampling and non-sampling methods in cosmology, workshop at the University of California, Berkeley, California, USA [slides]
 5. *Probabilistic cartography of the large-scale structure*
21-08-2015. Rencontres du Vietnam 2015: Cosmology 50 years after CMB discovery, Quy Nhon, Vietnam [slides] [proceedings]
 4. *How is the Cosmic Web Woven? A Bayesian Approach*
14-05-2015. Advanced Workshop on Cosmological Structures from Reionization to Galaxies: Combining Efforts from Analytical and Numerical Methods, ICTP, Trieste, Italy [slides]
 3. *How did structure appear in the Universe? A Bayesian approach*
27-08-2014. COSMO 2014 conference, Chicago, Illinois, USA [slides]
 2. *Bayesian inference of the initial conditions from large-scale structure surveys*
26-06-2014. The Zel’dovich Universe: Genesis and Growth of the Cosmic Web, IAU Symposium 308, Tallinn, Estonia [slides] [proceedings]
 1. *Bayesian large-scale structure inference: initial conditions and the cosmic web*
25-05-2014. Statistical Challenges in 21st Century Cosmology, IAU Symposium 306, Lisbon, Portugal [slides] [proceedings]

Posters

1. *Bayesian inference of dark matter voids in galaxy surveys*
22-03-2014. Rencontres de Moriond Cosmology 2014, La Thuile, Italy [[slides](#)] [[proceedings](#)]

Other Talks

33. *Simulator Expansion for Likelihood-Free Inference, Prospects for Euclid*
04-02-2020. Euclid (GC-WL-CG-LE3) meeting, Institut d’Astrophysique de Paris, Paris, France [[slides](#)]
32. *Simulator Expansion for Likelihood-Free Inference, Prospects for Euclid*
17-12-2019. Euclid UK 2019 meeting, Royal Astronomical Society, London, UK [[slides](#)]
31. *Bayesian inference with black-box cosmological models*
20-09-2019. Approximate Bayesian Computation and novel Bayesian approaches in cosmostatistics, workshop at the Université Clermont-Auvergne, Clermont-Ferrand, France [[slides](#)]
30. *The Cosmic Web: Theory, Simulations, Observations, Reconstructions*
31-07-2019. Review talk, Astrophysics Group, Imperial College London, London, UK [[slides](#)]
29. *Bayesian analyses of galaxy surveys*
08-07-2019. Cosmology group, Laboratoire Astroparticule & Cosmologie (APC), Paris, France [[slides](#)]
28. *Density reconstruction via Bayesian large-scale structure inference*
05-06-2019. Euclid Consortium meeting 2019, Helsinki, Finland [[slides](#)]
27. *Likelihood-free inference techniques for cosmology*
22-03-2019. The Most Ancient Heavens, conference at the Royal Astronomical Society, London, UK [[slides](#)]
26. *Density reconstruction via Bayesian large-scale structure inference*
17-12-2018. Euclid UK meeting 2018, University of Oxford, Oxford, UK [[slides](#)]
25. *Inference with generative cosmological models*
20-06-2018. Astrophysics Group, University College London, London, UK [[slides](#)]
24. *Simulation-based large-scale structure inference*
23-01-2018. “Journal-club Univers” at the Institut d’Astrophysique de Paris, Paris, France [[slides](#)]
23. *Bayesian optimisation for likelihood-free cosmological inference*
29-03-2017. Theory group meeting, Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, UK [[slides](#)]
22. *Cosmic web analysis in the SDSS main galaxy sample and implications for galaxy colors*
26-01-2017. “Journal-club Galaxies” at the Institut d’Astrophysique de Paris, Paris, France [[slides](#)]
21. *The phase-space structure of nearby dark matter*
24-01-2017. “Journal-club Univers” at the Institut d’Astrophysique de Paris, Paris, France [[slides](#)]
20. *The phase-space structure of nearby dark matter as constrained by the SDSS main galaxy sample*
15-12-2016. ICAP meeting, Institut d’Astrophysique de Paris, Paris, France [[slides](#)]
19. *Cosmic web analysis with the BORG SDSS run*
31-10-2016. Bayesian large-scale structure workshop, Max-Planck-Institut für Astrophysik, Garching, Germany [[slides](#)]
18. *Cosmic web analysis and information theory: some recent results*
05-01-2016. “Journal-club Univers” at the Institut d’Astrophysique de Paris, Paris, France [[slides](#)]

17. *Bayesian large-scale structure inference and cosmic web analysis*
24-09-2015. PhD defence, Institut d’Astrophysique de Paris, Paris, France [slides]
16. *Bayesian large-scale structure inference and cosmic web analysis*
30-04-2015. Large-scale structure group meeting, Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, UK [slides]
15. *Bayesian large-scale structure inference and cosmic web analysis*
03-04-2015. Journée des thèses, Institut d’Astrophysique de Paris, Paris, France [slides]
14. *Bayesian large-scale structure inference and cosmic web analysis*
05-03-2015. ICAP meeting, Institut d’Astrophysique de Paris, Paris, France [slides]
13. *Cosmic order and complexity*
25-02-2015. YMCA, Institut d’Astrophysique de Paris, Paris, France [slides]
12. *Cosmic order and complexity*
12-12-2014. Elbereth 2014 conference, Institut d’Astrophysique de Paris, Paris, France [slides]
11. *Bayesian inference and cosmic web classification*
15-05-2014. ICAP meeting, Institut d’Astrophysique de Paris, Paris, France [slides]
10. *Bayesian large-scale structure inference: initial conditions and cosmic voids*
09-04-2014. YMCA, Institut d’Astrophysique de Paris, Paris, France [slides]
9. *Bayesian inference of the initial conditions from large-scale structure surveys*
14-03-2014. Journée des thèses, Institut d’Astrophysique de Paris, Paris, France [slides]
8. *Cosmostatistics: the initial conditions and the large-scale structure of the Universe*
27-11-2013. Elbereth 2013 conference, Institut d’Astrophysique de Paris, Paris, France [slides]
7. *Cosmostatistics: the initial conditions and the large-scale structure of the Universe*
20-11-2013. PhD, Astroparticules & Cosmologie, Paris, France [slides]
6. *Cosmostatistics: the initial conditions and the large-scale structure of the Universe*
09-11-2013. Strings, Cosmology and Gravity Student Conference 2013, Max-Planck-Institute for Physics, Munich, Germany [slides]
5. *Cosmostatistics: the initial conditions and the large-scale structure of the Universe*
09-07-2013. Post-Planck Cosmology Summer School, Les Houches, France [slides]
4. *The initial conditions and the large-scale structure of the Universe*
12-06-2013. YMCA, Institut d’Astrophysique de Paris, Paris, France [slides]
3. *Optimizing Lagrangian perturbation theory in the mildly non-linear regime of cosmic structure formation via one-point remapping*
26-04-2013. Institute for Advanced Studies, Princeton, New Jersey, USA [slides]
2. *The large-scale structure of the Universe as a probe of primordial physics*
29-03-2013. Journée des thèses, Institut d’Astrophysique de Paris, Paris, France [slides]
1. *Large-scale structure and cosmic voids as probes of primordial physics*
12-12-2012. Elbereth 2012 conference, Institut d’Astrophysique de Paris, Paris, France [slides]