

# List of communications

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## Invited talks at international meetings

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

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**
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 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**
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](#)]