



# MFCA 2017

6th MICCAI workshop on

## Mathematical Foundations of of Computational Anatomy

<http://www-sop.inria.fr/asclepios/events/MFCA17/>

MFCA is a MICCAI workshop devoted to statistical and geometrical methods for modeling the variability of biological shapes. The goal is to foster interactions between the mathematical community around shapes and the MICCAI community around computational anatomy applications. The workshop aims at being a forum for exchange of theoretical ideas and a source of inspiration for new methodological developments in computational anatomy.

### Topics

Contributions are solicited in (but not limited to) the areas of:

- Riemannian, sub-Riemannian and group theoretical methods
- Statistical and stochastic models for manifold-valued data, including surfaces, deformations and shapes
- Metrics for computational anatomy
- Statistics of surfaces
- Time-evolving geometric processes
- Stratified spaces
- Optimal transport in registration problems
- Approximation methods in statistical learning

### Key dates

- Deadline for paper submission: June 1, 2017
- Notification of acceptance: July 7, 2017
- Camera ready papers: July 14, 2017.
- Workshop: September 14, 2017

### Proceedings

The program will be composed of oral and poster presentations selected by the peer-reviewed contributions of the participants. Proceedings will be published in Springer Lecture Notes in Computer Science (LNCS) proceedings of the MICCAI satellite workshops. Proceedings from previous MFCA workshops are available at <http://hal.inria.fr/MFCA/>.

### Submission

Authors are invited to submit papers from 10 to 12 pages in the LNCS format (see [LNCS submissions guidelines](#)) on the submission site at <https://cmt3.research.microsoft.com/MFCA2017>. Papers accepted at the MICCAI conference cannot be submitted. Notice that the workshop submission deadline will be after the MICCAI decision. Double submissions are NOT allowed with any other MICCAI workshop. If you hesitate between several workshops, please contact the workshop chairs.

### Chairs

- [Xavier Pennec](#) (INRIA Sophia-Antipolis, FR)
- [Sarang Joshi](#) (SCI, University of Utah, USA)
- [Mads Nielsen](#) (University of Copenhagen, DK)
- [Tom Fletcher](#) (SCI, University of Utah, USA)
- [Stanley Durrleman](#) (INRIA / ICM, Paris, FR)
- [Stefan Sommer](#) (University of Copenhagen, DK)

### Program committee

- Stéphanie Allasonnière (Ecole Polytechnique, FR)
- Rachid Deriche (INRIA, FR)
- Ian Dryden (University of Nottingham, UK)
- Luc Florack (Eindhoven University of Technology, NL)
- James Gee (University of Pennsylvania, USA)
- Guido Gerig (NYU, USA)
- Polina Golland (MIT, USA)
- Darryl Holm (Imperial College London)
- Susan Holmes (Stanford University, USA)
- Steve Marron (UNC Chapel Hill, USA)
- Stephen Marsland (Massey University, NZ)
- Michael Miller (Johns Hopkins University, USA)
- Marc Niethammer (UNC Chapel Hill, USA)
- Salvador Olmos (University of Saragossa, SP)
- Kaleem Siddiqi (McGill University, CA)
- Martin Styner (UNC Chapel Hill, USA)
- Alain Trouvé (Ecole Normale Supérieure)
- Carole Twining (University of Manchester, UK)
- Francois Xavier Vialard (Dauphine University, FR)
- William Wells III (Harvard / MIT, USA)