

# Corina Ciobotaru

Assistant Professor at Aarhus Institute of Advanced Studies (AIAS)  
Department of Mathematics Aarhus University, Aarhus DK-8000, Denmark  
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## EMPLOYMENT HISTORY

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- **Assistant Professor** Oct. 2021– present  
*Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark*
- **Bitdefender Fellowship at IMAR** Sept. 2021  
*Institute of Mathematics of the Romanian Academy (IMAR), Bucharest, Romania (1 month)*
- **Invited Researcher at IHES** Jan. 2021–Jul. 2021  
*Institut des Hautes Études Scientifiques (IHES), Paris, France (7 months)*
- **Mathematician at Leica Geosystems, Switzerland** Oct. 2019 – Dec. 2020  
*Tackled mathematical, geometrical and statistical modeling problems*
- **Postdoctoral Researcher in Mathematics** Sept. 2014 – Jun. 2019  
*University of Fribourg, Switzerland (3.5 years)*  
*University of Münster, Germany (4 months)*  
*University of Geneva, Switzerland (1 year)*

## EDUCATION

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- **Ph.D. in Mathematics (April 4, 2014)** Sept. 2010 – Aug. 2014  
*Université catholique de Louvain, Supervisor: Prof. Pierre-Emmanuel Caprace*  
*Belgium*
- **M.Sc. in Mathematics** Sept. 2008 – July. 2010  
*École Polytechnique, Supervisors: Prof. Emmanuel Breuillard, Prof. Andrei Moroianu*  
*Paris, France*
- **Licentiate Degree, Mathematics and Computer Science** Sept. 2004 – July. 2008  
*University of Bucharest and Școala Normală Superioară, Supervisor: Prof. Sergiu Moroianu*  
*Bucharest, Romania*

## FELLOWSHIPS

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- **Humboldt Research Fellowship** for University of Münster, Germany, 2016 – 2018
- **Ph.D. FNRS Fellowship** from University of Louvain la Neuve, Belgium, 2011 – 2014
- **M.Sc. Fellowship** from École Polytechnique France, 2008 – 2010

## RESEARCH INTERESTS

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My field of research is **geometric group theory** and combines algebra, ergodic theory, geometry, harmonic analysis, homogeneous dynamics, Lie theory, representation theory and statistics. Apart from the theoretical research topics, I applied techniques from geometry and statistics to real-life modeling problems, and developed efficient algorithms for sensor data processing in order to support specialized engineers at Leica Geosystems.

## PUBLICATIONS AND INVITED TALKS

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I have published 12 original research papers in internationally leading academic journals (IMRN, Advances in Geometry, Proc. Amer. Math. Soc., Journal of Lie Theory, Ergod. Theory Dyn. Syst.) and 8 preprints that are already submitted for publication, with a total of 14 international collaborators (Belgium, France, Germany, Israel, Switzerland). I have given 44 research talks in international conferences and research seminars, as well as 23 talks in various working/reading group seminars.

## PRINCIPAL ORGANIZER

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**Young Geometric Group Theory 7 (YGGT) conference** (Les Diablerets, Switzerland, March 2018)  
The conference gathered 110 graduate students and early-career researchers from Canada, Europe, USA  
We funded the 5-days board and lodging for all 110 participants, in total of **76600** Euro  
<https://sites.google.com/site/yggt2018/>