

YANN-EDWIN KETA

Doctoral student



November 24th, 1995



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yketa.xyz



github.com/yketa

Education

2016-2018

MSc. in Physics *High honours*

École normale supérieure de Lyon 

Specialisation in computational physics, soft matter, and statistical physics.


2015-2016

BSc. in Physics *High honours*

École normale supérieure de Lyon 

2013-2015


Classes préparatoires aux grandes écoles (PCSI/PC*)

Lycée Lakanal, Sceaux 

Ranked 59th in the École normale supérieure de Lyon entrance exam.

2018-2019 (Gap year)

MA in Social sciences *1st year*

École normale supérieure de Lyon 

Skills



Programming

Python

Bash • C/C++

SageMath

Languages

 French – Native speaker
 English – Fluent

Interests

- * Extreme music
- * Free software culture
- * Open knowledge initiatives

Research

Sep 2020 **PhD: Collective dynamics in simple active matter**

- Current Laboratoire Charles Coulomb, UMR 5221 CNRS,
Université de Montpellier 
Simons Collaboration on *Cracking the Glass Problem*

Supervisors: Ludovic Berthier (Montpellier, Cambridge),
Robert L. Jack (Cambridge)

Oct 2019 **Active work in systems of self-propelled particles**

- July 2020 Department of Applied Mathematics and Theoretical Physics,
University of Cambridge 
Laboratoire Matière et Systèmes Complexes, UMR 7057 CNRS,
Université de Paris 

Supervisors: Robert L. Jack, Michael E. Cates (Cambridge),
Frédéric van Wijland (Paris)

Jan 2018 **Simple model of active particles**

- Jul 2018 Stewart Blusson Quantum Matter Institute,
University of British Columbia 

Supervisor: Jörg Rottler

May 2017 **Numerical analysis of jamming criticality for spheroidal particles**

- Jul 2017 Institutionen för fysik, Umeå universitet 


Supervisor: Peter Olsson


Jun 2016 **Leidenfrost drop impacts on surfaces with micrometric defects**


- Jul 2016 Institut Lumière Matière, UMR 5306 CNRS,
Université Claude Bernard Lyon 1 


Supervisors: Quentin Ehlinger, Christophe Ybert

Publications

Y.-E. Keta, R. L. Jack, and L. Berthier, "Disordered collective motion in dense assemblies of persistent particles", (2022).  arXiv:2201.04902

Y.-E. Keta, É. Fodor, F. van Wijland, M. E. Cates, and R. L. Jack, "Collective motion in large deviations of active particles", *Physical Review E* **103**, 022603 (2021) [DOI:10.1103/PhysRevE.103.022603].  arXiv:2009.07112


Y.-E. Keta and P. Olsson, "Translational and rotational velocities in shear-driven jamming of ellipsoidal particles", *Physical Review E* **102**, 052905 (2020) [DOI:10.1103/PhysRevE.102.052905].  arXiv:2006.05305

T. Marschall, Y.-E. Keta, P. Olsson, and S. Teitel, "Orientational Ordering in Athermally Sheared, Aspherical, Frictionless Particles", *Physical Review Letters* **122**, 188002 (2019) [DOI:10.1103/PhysRevLett.122.188002].  arXiv:1806.01739

Y.-E. Keta and J. Rottler, "Cooperative motion and shear strain correlations in dense 2D systems of self-propelled soft disks", *EPL* **125**, 58004 (2019) [DOI:10.1209/0295-5075/125/58004].

Teaching

2022 **Python for sciences (undergraduates)**

Université de Montpellier 

2018/19 **Oral interrogator (Physics, Chemistry, Mathematics)**

2016/17 Lycée du Parc, Institution des Chartreux, Lycée La Martinière Diderot (Lyon) 