

YANN-EDWIN KETA

Graduate research 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

Oct 2019


Active work in systems of self-propelled particles
- Current Department of Applied Mathematics and Theoretical Physics, University of Cambridge 
Laboratoire Matière et Systèmes Complexes, Université de Paris 





Supervisors: Robert L. Jack, Michael E. Cates, Frédéric van Wijland



code:  yketa/active_work **Wiki:**  yketa/DAMTP_MSC_2019_Wiki

Jan 2018


Simple model of active particles
- Jul 2018 Stewart Blusson Quantum Matter Institute, University of British Columbia 




Supervisor: Jörg Rottler



code:  yketa/active_particles **Wiki:**  yketa/UBC_2018_Wiki

May 2017


Numerical analysis of jamming criticality for spheroidal particles
- Jul 2017 Institutionen för fysik, Umeå universitet 




Supervisor: Peter Olsson

code:  yketa/shear_ellipsoids **Wiki:**  yketa/Umea_2017_Wiki

Jun 2016

Leidenfrost drop impacts on surfaces with micro-metric defects
- Jul 2016 Institut Lumière Matière, Université Claude Bernard Lyon 1 



Supervisors: Quentin Ehlinger, Christophe Ybert

Publications


Y.-E. Keta, P. Olsson, "Translational and rotational velocities in shear-driven jamming of ellipsoidal particles," *arXiv:2006.05305* (2020).

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

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


Teaching

Sep 2018


Oral interrogator
- Jun 2019 Lycée du Parc, Lyon • Institution des Chartreux, Lyon • Lycée La Martinière Diderot, Lyon 

Weekly physics, chemistry, and mathematics oral interrogator in 1st- and 2nd-year *classes préparatoires aux grandes écoles* (undergraduate level).

Sep 2016

Oral interrogator
- Mar 2017 Lycée du Parc, Lyon 

2015

Volunteer tutor
- 2017 ENSeigner association, École normale supérieure de Lyon 

Science tutoring for high school students of Lyon.