

YANN-EDWIN KETA

Graduate research student


 November 24th, 1995


 yann-edwin.keta@ens-lyon.fr


 yketa.xyz

 github.com/yketa

Education

MSc. in Physics
École normale supérieure de Lyon 
Specialisation in computational physics, soft matter, and statistical physics.

BSc. in Physics
École normale supérieure de Lyon 

Classes préparatoires aux grandes écoles (PCSI/PC*)
Lycée Lakanal, Sceaux 
Ranked 59th in the École normale supérieure de Lyon entrance exam.

Skills

Programming



Python



Bash • C/C++

SageMath

0 years

6 years experience

Operating systems
Linux  • Mac OS X 

Languages
 Français – Native speaker
 English – Fluent

Interests

- * Physics outreach
- * Programming
- * Extreme music


Research

Oct 2019

Active work in systems of self-propelled particles



- Current

Department of Applied Mathematics and Theoretical Physics, University of Cambridge 

Supervisors:

Robert L. Jack, Michael E. Cates

code:


 yketa/active_work

Wiki:


 yketa/DAMTP_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

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 

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

2015

Volunteer tutor

- 2017

ENSeigner association, École normale supérieure de Lyon 

Tutoring in physics, chemistry and mathematics for high school students of Lyon.