

# YANN-EDWIN KETA

Graduate research student



November 24<sup>th</sup>, 1995




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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 59<sup>th</sup> in the École normale  
supérieure de Lyon entrance exam.

## Skills

### Programming




Python

Bash •  $\text{\LaTeX}$  • Matlab


C • Mathematica


0 years —————> 5 years experience

### Operating systems

Mac OS X  • Linux  • Windows 

### Languages

 Français – Native speaker

 English – Fluent

## Interests

\* Involvement in the École normale  
supérieure de Lyon's associations

\* Physics outreach


\* Extreme music

## Research

Jan 2018

### Simple model of active particles

- Jul 2018

Stewart Blusson Quantum Matter Institute, The University of  
British Columbia 



**Supervisor:** Jörg Rottler

- Implementation and analysis of a model system of polydisperse active Brownian disks with purely repulsive harmonic potential.
- Characterisation of the motility-induced phase separation and of the long-range correlated particles' motion.


**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

- Modification of an already existing 2D circular frictionless granular particles dynamics C program in order to study 3D spheroidal frictionless particles.

**code:**  yketa/shear\_ellipsoids

**Notes:**  yketa/Umea\_2017\_Notes

Jun 2016

### Leidenfrost drop impacts on surfaces with micrometric defects

- Jul 2016

Institut Lumière Matière, Université Claude Bernard Lyon 1 



**Supervisors:** Quentin Ehlinger, Christophe Ybert

## Publications

(preprint) T. Marschall, Y.-E. Keta, P. Olsson, S. Teitel, "Orientational Ordering in Athermally Sheared, Aspherical, Frictionless Particles," arXiv:1806.01739, (2018).


(unpublished) Y.-E. Keta, J. Rottler, "Cooperative motion and shear strain correlations in 2D systems of self-propelled soft disks," (2018).

## Teaching

Sep 2018

### Oral interrogator

- 2019

Lycée du Parc, Lyon • Institution des Chartreux, Lyon • Lycée La Martinière  
Diderot, Lyon 

Weekly physics, chemistry, and mathematics oral interrogator in 1<sup>st</sup>-  
and 2<sup>nd</sup>-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.