

YANN-EDWIN KETA

Graduate research student



November 24th, 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 59th in the École normale
supérieure de Lyon entrance exam.

Skills

Programming




Python

Bash • \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.

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

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


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