

YANN-EDWIN KETA

Graduate research student


 November 24th, 1995


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 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 • Matlab



C • Mathematica

0 years —————> 6 years experience

Operating systems

Linux  • Mac OS X 


Languages

 Français – Native speaker
 English – Fluent

Interests

- * Physics outreach
- * Programming
- * 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 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.