### YANN-EDWIN KETA

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

2018-2019 (Gap year)

**MA in Social sciences** 1<sup>st</sup> 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

Sep 2020 PhD: Collective dynamics in simple active matter

- Current Laboratoire Charles Coulomb, UMR 5221 CNRS, Université de Montpellier



**Supervisors:** Ludovic Berthier (Montpellier),

Robert L. Jack (Cambridge)

Wiki: O yketa/PhD Wiki code: O yketa/coll dyn activem

Oct 2019 Active work in systems of self-propelled particles

- July 2020 Department of Applied Mathematics and Theoretical Physics,

University of Cambridge **\*\*** 

Laboratoire Matière et Systèmes Complexes, UMR 7057 CNRS,

Université de Paris

Supervisors: Robert L. Jack, Michael E. Cates (Cambridge),

Frédéric van Wijland (Paris)

Wiki: O yketa/DAMTP MSC 2019 Wiki code: O yketa/active work

Jan 2018 Simple model of active particles

- Jul 2018 Stewart Blusson Quantum Matter Institute,

University of British Columbia 🚹

Supervisor: Jörg Rottler

Wiki: O yketa/UBC 2018 Wiki **code:** • yketa/active particles

May 2017 Numerical analysis of jamming criticality for spheroidal

- Jul 2017 particles

Institutionen för fysik, Umeå universitet 🏪

**Supervisor:** Peter Olsson

**code:** • yketa/shear ellipsoids Wiki: O yketa/Umea 2017 Wiki

Jun 2016 Leidenfrost drop impacts on surfaces with micrometric

- Jul 2016 defects

Institut Lumière Matière, UMR 5306 CNRS, Université Claude Bernard Lyon 1

**Supervisors:** Quentin Ehlinger, Christophe Ybert

### **Publications**

Y.-E. Keta, É. Fodor, F. van Wijland, M. E. Cates, and R. L. Jack, "Collective motion in large 

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

arXiv:2006.05305

T. Marschall, Y.-E. Keta, P. Olsson, and S. Teitel, "Orientational Ordering in Athermally Sheared, Aspherical, Frictionless Particles", Physical Review Letters 122, 188002 (2019) [DOI:10.1103/PhysRevLett.122.188002]. **₽** arXiv:1806.01739

Y.-E. Keta and J. Rottler, "Cooperative motion and shear strain correlations in dense 2D systems of self-propelled soft disks", EPL 125, 58004 (2019) [DOI:10.1209/0295-5075/125/58004].

## **Teaching**

2018/19 Oral interrogator

2016/17 Lycée du Parc, Institution des Chartreux, Lycée La Martinière Diderot (Lyon)





