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

2018-2019 (Gap year)

MA in Social sciences 1st 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

Simons Collaboration on Cracking the Glass Problem

Supervisors: Ludovic Berthier (Montpellier, Cambridge),

Robert L. Jack (Cambridge)

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)

Jan 2018 Simple model of active particles

- Jul 2018 Stewart Blusson Quantum Matter Institute,

University of British Columbia

Supervisor: Jörg Rottler

May 2017 Numerical analysis of jamming criticality for spheroidal

- Jul 2017 particles

Institutionen för fysik, Umeå universitet 🏪

Supervisor: Peter Olsson

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

YEK, R. L. Jack, and L. Berthier, "Disordered collective motion in dense assemblies of persistent particles", Physical Review Letters 129, 048002 (2022) [DOI:10.1103/PhysRevLett.129.048002]. • arXiv:2201.04902

YEK, É. Fodor, F. van Wijland, M. E. Cates, and R. L. Jack, "Collective motion in large deviations of active particles", Physical Review E 103, 022603 (2021) [DOI:10.1103/PhysRevE.103.022603]. **♪** arXiv:2009.07112

YEK and P. Olsson, "Translational and rotational velocities in shear-driven jamming of ellipsoidal particles", Physical Review E 102, 052905 (2020)

T. Marschall, YEK, P. Olsson, and S. Teitel, "Orientational Ordering in Athermally Sheared, Aspherical, Frictionless Particles", Physical Review Letters 122, 188002 (2019)

YEK 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

2022 **Python for sciences (undergraduates)**

Université de Montpellier

2018/19 Oral interrogator (Physics, Chemistry, Mathematics)

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

















