

# Juha Koivisto

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## Experience 2007-2013

Researcher at Aalto University (former Helsinki University of Technology)

I worked as graduate student in Complex systems and materials lead by Professor Mikko Alava. My topic has been experimental fracture. At the end I was responsible of the experimental part consisting devices, software and guiding Bachelor students. I was an instructor for 6 Bachelor theses or similar reports.

## Education 9/2013

PhD in Physics

I will graduate as Doctor of Technology in Physics from Aalto University in the fall 2013. Title of my thesis is: Fracture and prediction of heterogeneous materials.

## Skills

Experimental Physics: My strongest area is reproducible experiments with synchronized data collection and analysis of the data. My research field is soft condensed matter, more specifically fracture and deformation.

Programming: I have worked in a role of senior software developer using version management, scrum and unit/integration testing. I am familiar with roughly 20 programming languages and fluent with C, Python and Javascript.

Languages: My native language is Finnish and I speak and write fluent English. Also, I speak intermediate German and Swedish.

Electronics: I am certified class 3 electrician: I am allowed to manufacture and install devices operating less than 1000 volts. I excel in analogue electronics and can program simple microprocessors.

## Publications

I have 9 publications in peer-reviewed journals and I have held tens of presentations in conferences, both domestic and international. Below are selected papers.

J. Rosti, J. Koivisto, L. Laurson, and M. Alava, *Fluctuations and scaling in creep deformation*, Physical Review Letters **105**, 100601 (2010).

J. Koivisto, J. Rosti, and M. Alava, *Creep of a fracture line in paper peeling*, Physical Review Letters **99**, 145504 (2007).

## National Media Coverage

*Ylioppilaskoe hakkeroitin omaperäisillä keinoilla - koe sabotoitiin morsettamalla äänikortilta*, Honorary mention in Finnish matricular examination hacking contest for lateral thinking, Yle 8.10.2013.

*Paperi repeää tasaisessa vedossa epätasaisesti*, media coverage for PRL 105, 100601 (2010), Yle 15.09.2010.

## Other

I run a small programming consulting company on my spare time. Also running, roller skating and angling are my favorite past time pleasures.