

Maximilien Danisch

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## Education in Theoretical and Applied Physics

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- 2009-2010* : **2<sup>nd</sup> year of Master's degree** (with honors) : Theoretical physics of complex systems, at Ecole Normale Supérieure de Cachan and Université Pierre et Marie Curie, Paris 6.
- 2008-2009* : **1<sup>st</sup> year of Master's degree** (with honors) in Fundamental and Applied Physics at Ecole Normale Supérieure de Cachan and Université Pierre et Marie Curie, Paris 6.
- 2007-2008* : **Bachelor's degree** (with honors) in Fundamental and Applied Physics at Ecole Normale Supérieure de Cachan and Université Pierre et Marie Curie, Paris 6.
- 2005-2007* : Lycée Marcelin Berthelot, Saint-Maur-des-Fossées. Completed studies specialised in Mathematics and Physics in the "Classes Préparatoires aux Grandes Ecoles", a special intensive program preparing students for competitive examinations to enter French engineering schools. Gained admittance to Ecole Normale Supérieure de Cachan.

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## Skills

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### *Language*

- **French** : Mother tongue.
- **English** : Fluent.
- **Polish** : Conversational.

### *Computer*

- **Computational physics** : Matlab, Python, Fortran.
- **Applications** : Igor, Maple, L<sup>A</sup>T<sub>E</sub>X

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## Research experience

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- 2010-currently* : I am doing a one year internship supervised by Prof. Tony Jebara at Columbia University. I am working on the application of perfect graphs for Machine Learning.
- 2009-2010* : Six month research internship supervised by Prof. Hernan A. Makse at the Levich Institute and the Physics department of the City College of New York. I developed models to predict the phase diagram of packing of different size balls and rods.
- 2008* : Six week research internship supervised by Prof. Gérard Louis at the Laboratoire de Neurophysique Cellulaire at the University René Descartes (Paris 5). I used a quartz crystal microbalance to evaluate the attachment forces of various types of neural cells with various types of surfaces.

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## Publication

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- Maximilien Danisch, Yuliang Jin and Hernan A. Makse. *Model of random packings of different size balls*. PRE 81, 051303. (2010)